# **SERVICE MANUAL**

AFP Model Chassis No. SCC-D51L-A



Note: The service manual for RM-689 has been issued separately.

MODELS OF THE	SAME SERIES
KV-X2931D	KV-X2930B
KV-X2531D	KV-X2530B
KV-X2131D	KV-X2130B

## **SPECIFICATIONS**

Television system B/G/H

Sound output

15 W +15 W (music power)

Color system

PAL, SECAM, NTSC3.58, NTSC4.43

Power consumption 109 Wh

Channel coverage VHF: E2-E12 UHF: E21-E69

**Dimensions** 

Approx. 656x554x512 mm (w/h/d)

CABLE: S1-S20, S21-S41

Weight

Approx. 60kg

Picture tube

Trinitron tube

Approx. 72.4 cm (29 inches)

(Approx. 68 cm picture measured diagonally

110°-degree deflection)

Supplied accessories RM-689 Remote Commander (1)

IEC designation R6 batteries (2)

Inputs

Ö-1 21-pin connector:

CENELEC standard including RGB input.

→ 2 21-pin connector: including S video input

3 Video, Audio: phno jack.

Design and specifications are subject to change

without notice.

Outputs

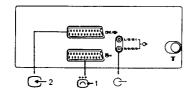
21-pin connector: CENELEC standard Headphones jack: stereo minijack External speaker terminals: 2-pin DIN Audio output jacks: phono jack (output

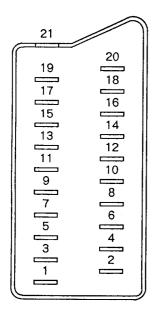
dependent upon TV settings)



TRINITRON® COLOR TV SONY

# 21 pin connector (6-1, -2)





Pin No	1	2	Signal	Signal level
1	0	0	Audio output B (right)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
2	0	0	Audio input B (right)	Standard level: 0.5Vrms Input impedance: More than 10kohms #
3	0	0	Audio output A (left)	Standard level: 0.5Vrms Output impedance: Less than lkohm*
4	0	0	Ground (audio)	
5	0	0	Ground (blue)	
6	0	0	Audio input A (left)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
7	0	•	Blue input	0.7V±3dB, 75ohms, positive
8	0	0	Function select (AV control)	High state (9.5-12 V): Part mode Low state (0-2 V): TV mode Input impedance: More than 10kohms Input capacitance: Less than 2 nF
9	0	0	Ground (green)	
10	0	0	Open	
11	0	•	Green	Green signal: 0.7V±3dB, 75ohms, positve
12	0	0	Open	
13	0	0	Ground (red)	
14	0	.0	Ground (blanking)	
, _	0	-	Red input	0.7V±3dB. 75ohms, positive
15	_	0	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	0	•	Blanking input (Ys signal)	High state (1-3 V) Low state (0-0.4 V) Input impedance: 750hmes
17	0	0	Ground (video output)	
18	0	0	Ground (video input)	
19	0	0	Video output	IV±3dB. 75ohms, positive Sync: 0.3V (-3, +10dB)
20	0	-	Video input	1 V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
	-	0	Video input/Y (S signal)	1 V±3dB. 75ohms, positive Sync: 0.3V (-3. +10dB)
21	0	0	Common ground (plug, s	hield)

O connected

unconnected (open)

\* at 20 Hz-20 kHz

## **WARNING!!**

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

# SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK

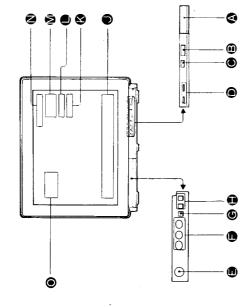
① ON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

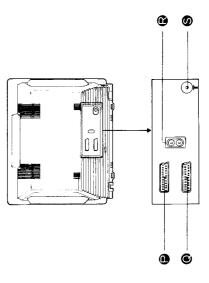
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# SECTION 1 GENERAL

# 1-1. FUNCTION OF CONTROLS





# ON THE SET

# 

Use it to switch the set on and off. When you switch the set on, the programme number of the station funed in will be indicated in the on-screen display ( $\frac{1}{2}$ ) for some seconds. In case of short breaks of operation, you can switch the set on and off using the Remote Commander (See »CONTROLS ON THE REMOTE COMMANDER«).

(B) Remote control detector (See »CONTROLS ON THE REMOTE COMMANDER«).

 © \*\*O Standby/Reponse indicator
This indicator lights up when the TV set is in standby mode and it flashes each time the set receives signals from the Remote Commander

# Stereo A/B indicators 🗅

During bilingual programmes one of the two indicators lights up, depending upon the selected channel A or B. When stereo programmes are broadcast both indicators light up, (See "CONTROLS ON THE REMOTE COMMANDER»).

# Jacks and control panel (front of set)

The jacks and the control panel are situated behind a cover. Please press the arrow marking on the cover to open it.

# ☐ ○ Headphones jack (stereo minijack)

Connect only stereo headphones.

# (1) (4) Input jacks

Audio input jacks (phono jacks) 🕒 (red and white). Video input jack (phono jack) 3 (yellow)

# (c) Mode select button

Use this button to select either the channel select mode, volume adjustment  $\Delta$  or the 🗣 input mode.

# Adjustment buttons +/-

Select at first the item to be adjusted using the Mode select button  $\textcircled{\textbf{e}}$  (P: channel select mode),  $\Delta$  (volume) or  $\textcircled{\textbf{e}}$ (input mode), then adjust the item by pressing the + or - You can also use these buttons to reset the picture and sound adjustments to the factory-set levels. For this purpose press both buttons simultanteously.

# On-screen display

When you repeatedly press button 🖲 🔞 on the Remote Commander, the following information will be indicated on the screen in turn:

indications, when the respective buttons are pressed.

When you press button ② io on the Remote Commander, the following information will be indicated on the screen:

# (N TV-System: I (normal UK broadcast system)

# Channel number

(V) Programme number or input mode; @1, \$\tau\$, \P2, \P2, \P3;

# N Indication of the station name

**● AV output indication**; 1 🚭, 2 🚭, 3 🚭 or TV 🕒 (see »CONTROLS ON THE REMOTE COMMANDER«).

# Connectors on the rear

# D Euro-AV-connector 21-pin ⊕-2/ ⊕-2

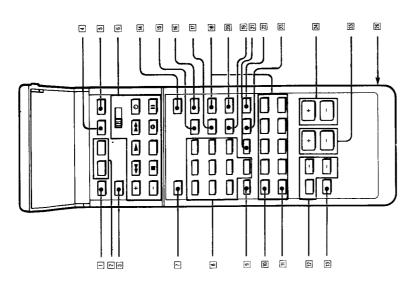
For connecting a VTR, 8 mm video camera recorder, a video disc player or in general devices with an S-Video-output.

♠ Euro-AV-connector 21-pin Ö-1 For connecting a VTR, a computer etc. with RGB output.

# Audio-output-jacks (phono jacks) Output-jacks (p

For connecting audio equipment, e.g. an amplifier, so that the sound will be output at the audio equipment. In this case the volume is adjustable on the TV set.

# S Aerial terminal T



# ON THE REMOTE COMMANDER

On the set there is a Remote Control detector 📵, which receives the signals of the Remote Commander Preset-button Used for selecting the Preset mode. See »TO PRESET CHANNELS».

# Tuning +/- buttons 2

a) Preset mode: Used for tuning in stations in the Automatic Station Search: See »TO PRESET CHAN-

b) TV-mode: Used for fine-tuning a station. See "ADDI-FIONAL FUNCTIONS«

# Coo button (Clear) 6

Used for clearing programme positions, so that the position will be skipped when the PROGR +/- buttons are pressed. See »TO PRESET CHANNELS«.

- Store button: Used for storing channels. See "TO PRESET CHANNELS. 4
- ◆ TV-system-select-button This button has no function. 2
- Used for operating Sony video equipment. For details see "OPERATING OTHER EQUIPMENT«. Video selector and video operation buttons (g

# 

<u>-</u>

By pressing this button the sound of the set will be switched off and by pressing it once more the sound

will be restored.

60

 a) Used to select programme positions or to input channel numbers (in the preset mode). b) If the set is in the standby mode, press one of the **Number buttons** 

c) After pressing the output select button  $\ominus$ + the buttons 1-2 can be used to select the different output number buttons to switch it on. connectors.

# -/-- Button

In case of two digit numbers, press first this button and then the two respective number buttons [8]. 6

Button for On-screen display

tuned-in will be indicated on the screen. The indications will disappear after some seconds with the exception of the programme number and label, which will stay on the screen until the button is pressed once By pressing this button, information about the station

# Time button ©

In TV-mode: If teletext service is broadcast on the selected channel, press this button to display the current time on the screen and once again to make it Ξ

# +/- Buttons for picture and sound adjustments

2

# a) TV-mode:

The picture and sound adjustments are stored as standard values. You have, however, the possibility to screen display: O contrast, O colour, O brightness, 12 change them to your individual liking. Press the button hue (only for NTSC colour system), ? bass, ♦ treble or balance. You can adjust the settings by pressing repeatedly until the required item is indicated in the onthe + or - button.

b) Preset-mode: Use these buttons to name a station. See "TO PRESET CHANNELS".

# **→•**← Reset-button 5

By pressing this button the picture and sound adjustments are reset to the factory-set levels.

# 

4

Press this button to switch the set into standby-mode. You can switch it on again by pressing the TV-button or or one of the number buttons (a). To return to the teletext mode, press 🖲 / 🥙 📧 button. There will be a slight delay before the picture is restored.

Use the Standby-button [14] only when switching the set off for a short period of time. If the set will not be used for a longer span of time, switch it off by using the Power switch

# ⊕ Input-Select-Button

input at the various input connectors. With each pressing of the button a different connector is selected. The following indications will appear sequentially: Press this button to select the audio- or video-signals 15

⊕1 → Ö+(RGB) → ⊕2 → ⊕2 → ⊕3

# TV Mode ▲

# O TV-Button 9

When pressing this button the set returns from standby, video input- or teletext mode to the TV-mode.

17

# Press this button to select the audio- or video signals to → Output-Select-Button

With each pressing of the button a different output The following indications be output at the ⊕/® connector. source will be selected. appear sequentially:

Q, 2Q, 3Q, TVQ

# These buttons are used for teletext operation. Teletext operation buttons 9

"VIEWING TELETEXT".

See

<u>6</u>

By pressing this button the high and low tones will be emphasized. Press the button again to restore the normal sound. The indications on the screen will be V, (OM) or W, (OFF). To select the audio channel of bilingual programmes. Usually the dubbed version is broadcast on channel  ${\bf A}$ A/B button

R

In the video input mode (Euro-AV-connectors) this possibility of selecting channels also exists for stereo and the original sound is broadcast on channel B.

# C (Channel select) button

Use this button for direct channel tuning in the TVmode. See \*ADDITIONAL FUNCTIONS 21

# This button has no function on this set. 22

⊕ Space sound button
Press this button to obtain special acoustic effects.
Press it again to restore the normal sound. The indications on the screen will be ⊕ (on) or ⊕ (off). ଅ

# PROGR +/- buttons

TV-mode: Use these buttons to scan the available programmmes up- or downwards.

Preset mode: Use these buttons to scan the available channels up or downwards. 24

# +/- buttons for adjusting the volume 52

[38]

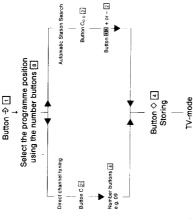
# TO PRESET CHANNELS 1-2

Use the buttons on the Remote Commander for presetting. In total there are 60 programme positions at your disposal There are two different ways of tuning in channels: for storing channels.

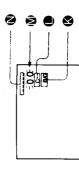
1. Direct Channel Tuning

if you know the channel number of a station you can input it directly.

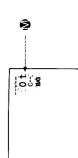
Automatic Station Search The set searches automatically for stations.



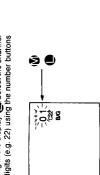
1. Press the Preset button ⊘ ... You are now in the preset mode of the set. The programme number in the on-screen display \(\vec{\bar{\psi}}\) starts blinking. 1. Direct Channel Tuning



2. With the buttons PROGR +/- [2] or the number buttons [3] you can select the programme position. In case of two-digit numbers, press first the button -/- [9] and then the two number buttons.



number start blinking in the display ( Select the channel number with two digits (e.g. 22) using the number buttons 3. Press button C [2]. The indication »C« and the channel



4. Press the button ♦ ⚠ in order to store the channel and to return to the TV-mode.



If you want to store further channels, repeat the steps 1 to 4.

# 2. Automatic Station Search

1. Press button ᢒ ⊡. You are now in the preset mode of the set. The programme number in the on-screen display (♥) starts blinking. 2. With the PROGR buttons +/- 24 or the number buttons [8] you can select the programme position. In case of two-digit numbers, first press button -/- [8] and then the two number

4. Press one of the tuning buttons 4 +/- 2 to start the station search. The search will be interrupted as soon as a station is tuned in. Press the tuning buttons repeatedly until you find the desired station. **5.** If you have found the desired station, press button  $\Diamond$  [4]. Now the selected station is stored and you are back in the

If you want to store further stations, repeat the steps 1-5.

Skipping of unused programme positions Using button C  $_{\circ}$  ( ) you have the possibility to skip unused programme positions (e.g. without a stored station), when pressing the buttons PROGR +/-  $[\underline{z}]$  on the Remote  Press button ⇒ 1. You are now in the preset mode of the set. 2. Use the buttons PROGR +/- 2 to select a programme position, which you want to have skipped

3. Press button Coo 3

Press button ♦ 4 to store the cleared programme position and to return to the TV-mode.

The skipped programme position still appears when you press the number buttons son the Remote commander.

If you want to name a station

After presetting the stations you have the possibility to name them. The selected name will appear in the on-screen display (N).

1. Press the preset button ⇒ [1]

2. Press the button @ Ig. The first column of the station name starts blinking. Press either button + or - Ig and select the desired character (number or letter, 0-9, A-Z, or for a blank space). 3. Press button (E) 1:2 again. Now the second column starts blinking and you can select the second character. n this way five characters can be selected.

Press button ◊ 4 to store the station name.



 If you press the preset button ⇒ □ instead of button
 □ the set will return to the TV-mode without storing the channels. If you press a wrong programme or a channel number, an

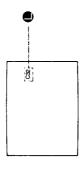
 »x« will be displayed on the screen.
 When pressing two number buttons, the second number button should be pressed within 5 seconds after the first one, otherwise the operation will be cancelled

# ADDITIONAL FUNCTIONS

# You have the possibility to tune in channels directly when Direct Channel Tuning in the TV-mode

the set is in the TV-mode without storing these channels. Example: If you tune in channel number 32 and then switch the set off or change the programme position, this channel will be cancelled.

1. Press the button C 🔃 In the display 🌘 the indication "C« will appear 2. Select the channel number with two digits using the number but buttons (B) (e.g. for channel 4 press first 0, then 4). The indication on the screen will disappear within some



# Manual Fine Tuning

possibility to deactivate the Automatic Fine Tuning, which is f the reception of a channel is not satisfactory, you have the usually in operation during presetting in order to tune in the

best possible picture. Press one of the tuning buttons  $\overline{\text{GPB}}$  +/-  $\overline{\text{2}}$  to fine-tune a channel. The Automatic Fine Tuning will be restored when he respective programme position is pressed once again

The set is capable of receiving NICAM, which is a newly developed digital stereo broadcast system. NICAM programmes are broadcast in three ways: stereo, bilingual or monoaural sound besides the regular (FM mono) sound, and you can select the sound you want to hear by pressing the AJB button  $\overline{\otimes}$ . We have a select the sound you want to hear by pressing the AJB button  $\overline{\otimes}$  with arrows in the following chart. Each time the button is pressed, the sound changes sequentially, as indicated with arrows in the following chart.

NICAM sound being broadcast	The sound you hear (Select with the A/B button 🔯 .)
Stereo	Stereo → Regular → Stereo (etc.)
Bilingual	A → B → Regular → A (etc.)
Мопоаита	A → Regular → A (etc.)

Whenever a NICAM broadcast is received, the Drd indication appears on the screen and disappears after a few seconds.

When the NICAM programme ends, the DKI indication appears for a few seconds

NICAM indication	on the screen		×			0
☼ indicators	Ф	×	0	×	0	0
© indica	∢	×	×	0	0	0
The selected	punos	Stereo	ď	80	Regular	Regular
The sound being	broadcast	NICAM	+ Regular			Regular

o means that the indicator does not light up or the indication is not displayed.

# 1-3. VIEWING TELETEXT

To view the teletext service, use the Remote Commander. The buttons for teletext operation are indicated in green.

Operation	To return to the TV mode, press TV is on the Remote Com-
	mander.
1 Select the TV channel for the desired teletext service. If the	The teletext service can be displayed directly from the
signal is weak, teletext errors often occur.	standby mode by pressing (2) (TEXT/MIX).
2 Press ( / TEXT/MIX) to display the teletext service.	To receive the teletext service of a different TV channel
3 Key in the three digits of the desired page using the number	1 Press TV [16] to return to the TV mode.
buttons. If an error is made, complete the three-digit	2 Select the desired by challed.
sequence by keying in any digit. Then, re-enter the correct	S Press (IEAL/MIA).
page number.	Note
The requested teletext page is displayed.	Buttons not referred to in the text do not operate.

# To suppress the teletext display so that the picture is

restored Press ® (text clear). This button can be operated from both

To have a requested page displayed at a pre-determined

To view this page, press 🖲 🖊

P 101

2 Press ( (TP ON).
" T \* \* \* \* " will appear at the bottom of the screen. Request a time coded page (e.g. alarm page).



# To enlarge the teletext display

Press again to conceal the answers.

1 Request the new page. page to be displayed

# **T0730**

3 Enter your request time with the number buttons, using four digits. For example, 07.30:

To watch the TV programme until the requested time, press ® (TEXT CL). At the requested time, the page number will be displayed at the bottom of the screen.

To view this page, press ® (Ø) To concel the request, first ensure that the teletext page is displayed, then press ® (TP OFF).

Selection may also be made by entering the three digit page

number in the normal way.

Correct FASTEXT operation relies on the necessary signals being transmitted by the Broadcasting Authorities. It is possible that some Broadcasters will not support this transmission.

If FASTEXT is not transmitted, the decoder will operate as outlined above.

To request the index page
Press (I) (INDEX).
If the necessary signal is not being broadcast, page 100 is To access the next or preceding page Press ☜ (PAGE +) or ☜ (PAGE –).

Trequested page number and other data appear at the top of the screen. When the requested page has been captured, the page number is displayed in the top left hand corner of the

2 Press (3) to watch the TV programme.

To superimpose the teletext display on the picture (MIX) Press 🕑 💇 twice from the TV mode. Press 🐷 🗗 again to return to the TEXT display.

the text and mix displays.

# To prevent a teletext page from being updated/changed Press ⊕ (HOLD). The HOLD symbol appears on the screen. To resume normal teletext reception, press ⊕ (₱) (TEXT/MIX).



\*\*\*

To resume normal teletext reception, press 🖲 / 🥙.

Press (4) once to enlarge the upper half of the display, press again to enlarge the lower half of the display. And press again to return to the normal display.

# To reveal concealed information such as answers to a quiz Press ® (REVEAL).

To watch the TV programme while waiting for a requested

# FASTEXT Operation

FASTEXT Teletext enables you to access pages quickly and conveniently with one key operation. When a FASTEXT page is broadcast a colour coded menu will appear at the bottom of the screen. Each coloured prompt relates to the coloured keys on the Remote Commander. Pressing one of these will select the page described by the

# 1-4. OPERATING OTHER EQUIPMENT

1-5. CONNECTING OTHER EQUIPMENT

To view the input picture
Press the Fig button repeatedly until the desired input signal indication appears on the screen. (中 1: to view the audio and video signal input through the 尚-1 connector on the rear.

Ö+1: to view the RGB signal (i.e. from a computer, etc.) input through the Ö+1 connector.

(子 2: to view the audio and video signal input through the (子 2/色- connector on the rear.

⊕ 2: to view the S video signal (from a VTR equipped with an S video output) input through the 🕒 2/ ि connector. 3-3 to view the audio and video signal input through the 3-3 connectors and the audio input jacks 9- (yellow, white and red) on the front.

You can also select the desired input mode using the buttons on the front of the set. Select the  $\mathbb G$ -mode with the mode select ( $\mathbb P\to \Delta\to \mathbb G$ -) button  $\textcircled{\bullet}$  then press +/-

To return to the TV mode, press the TV-button [16].

# To select the signal to be output from the ⊕•2/€+ con-

Press the 🕒 button 🕜 repeatedly until the desired output source is indicated on the screen:

1  $\bigcirc$ +: The audio and video signal input through the  $\bigcirc$ -1 connectors is output from the  $\bigcirc$ +2/ $\bigcirc$ - connector.

2 ᠿ: The audio and video signal input through the G+2/€-

3  $\hookrightarrow$  : The audio and video signal input through the G=3 connectors is output from the G=2/E= connector.

TV C→: The audio and video signal input through the T aerial terminal (i.e. usually the TV signal) is output from the C→ 2/E→ connector.

The indication will disappear after a few seconds.

Note

The TV-signal is always output at the EURO-AV connector Ö-1.

To operate Sony video equipment
The video operation buttons © on the Remote Commander
can operate certain VTRs and video disc players manufactured by Sony. Switch the video selector to the desired position.
 WIDEO 1: to operate Sony Betamax VIR and SLV 202 VHS.
 WIDEO 2: to operate Sony 8 mm VTR.
 WIDEO 3: to operate Sony 8 mm VTR.

Rear of the set

MDP: to operate Sony video disc player including a multi disc player. 2. Press the operation button(s) to start operation. PROGR +/-: to select the desired programme on the VTR.

000

9

0

ф Э 0

Front

: to start playback, or to release the pause mode •

to stop the tape or the disc

to rewind the tape from stop mode or to rapidly go back to the desired position on the disc or tape from playback mode ¥

RK-74 A connecting cord (optional)

to fast forward wind from stop mode or rapidty advance the tape or disc to the desired position from playback mode **1** 

100 mm

Commercially available cord equipped with a 21-pin connector

to start recording on the VTR Be sure to press this button and the one on the right simultaneously •

to switch the video equipment on and off Ð

VTR, 8 mm video camera recorder, video disc player, e

VTR, 8 mm video camera recorder, video disc player, e

Signal flow

: to stop the tape or the disc temporarily (pause) Press again to release pause mode į

Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals.

as one signal, and supplied to a TV. Separation of the Y and This set is equipped with a S video input through which Usually these two signals are combined in a VTR and output thereby improving picture quality (especially in luminance). Connect the S video output jack on the VTR to the S video C signals prevents them from interfering with one another, these separated signals can be input directly.

Note: Not all VTR's are equipped with S video output capability. (Refer to VTR operating manual.)

# S video input (Y/C input)

Connect the S video output of the VTR, etc. here.

Notes

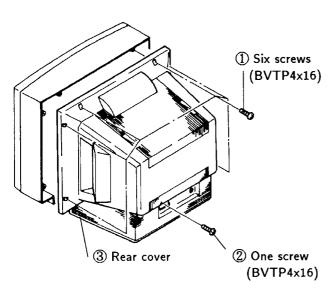
It is also possible to connect a VTR using the Tr terminal.
 In this case, connect the aerial to the aerial terminal of the

input on this set. Move the VTR away from the TV if the picture or the sound Computers which have RGB output only can be connected to the Ö-1 input connector.

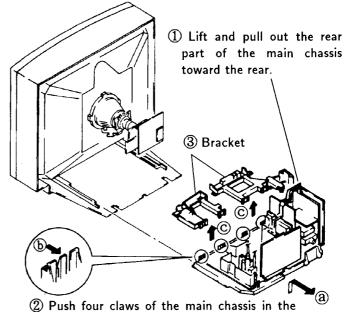
is distorted.

# SECTION 2 DISASSEMBLY

# 2-1. REAR COVER REMOVAL

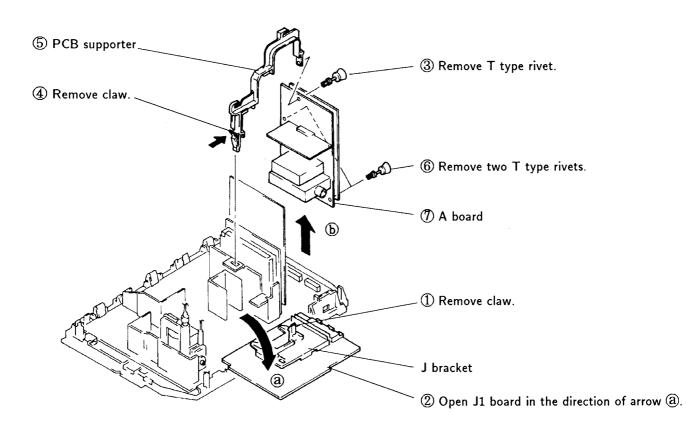


# 2-2. CHASSIS ASSEMBLY REMOVAL

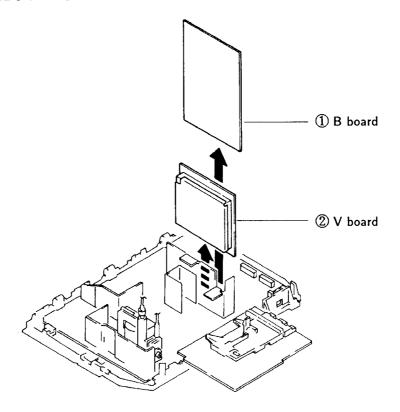


direction of arrow and remove the bracket.

# 2-3. A AND J1 BOARD REMOVAL

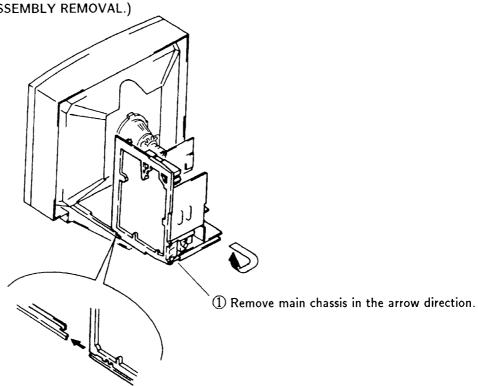


# 2-4. B AND V BOARDS REMOVAL

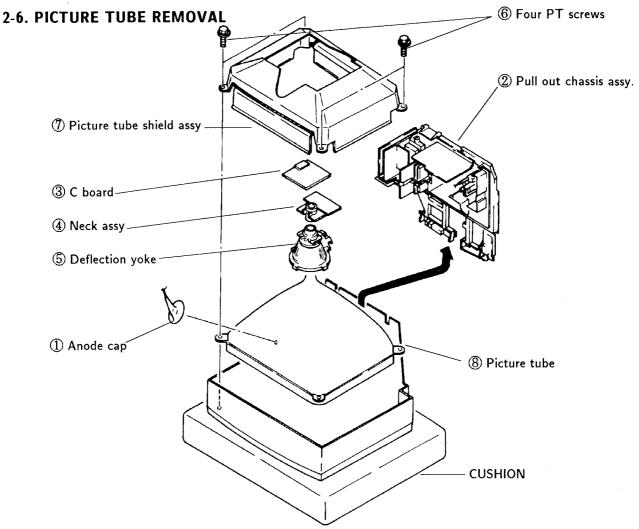


# 2-5. SERVICE POSITION

\* Remove the connector bracket and then perform the following servicing. (Refer to 2-2. CHASSIS ASSEMBLY REMOVAL.)

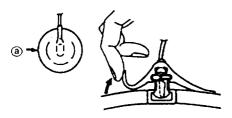


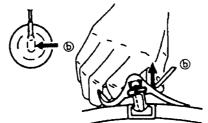
2 Install the main chassis on to the holder.

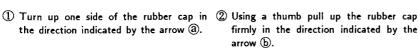


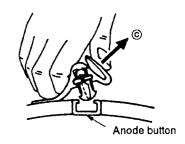
# • REMOVAL OF ANODE-CAP

# • REMOVING PROCEDURES





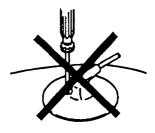


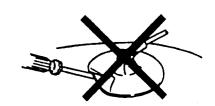


When one side of the rubber cap is separated from the anode button, the snode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

# · HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





# SECITON 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way:

① Contrast .....80%

(or remote control normal)

Brightness ......50%

- Carry out the following adjustments in this order:
  - 1. Beam landing
  - 2. Convergence
  - 3. Focus
  - 4. White balance

Note: Testing equipment required

- 1. Color bar/pattern generator
- 2. Degausser
- 3. DC power supply
- 4. Digital multimeter
- 5. Oscilloscope

# Preparations:

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

# 3-1. BEAM LANDING

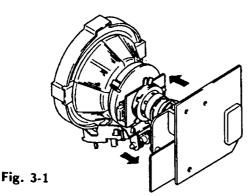
- 1. Input the white signal with the pattern generator.

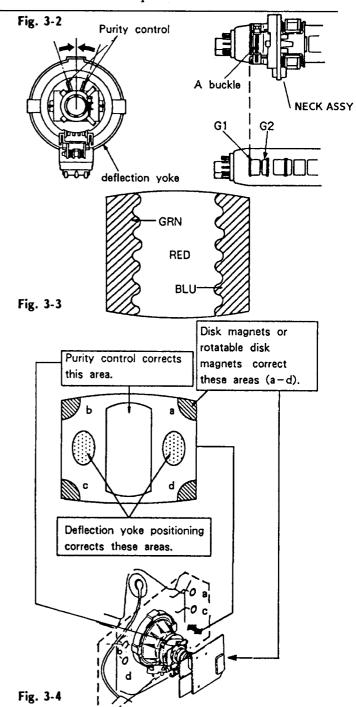
  Contrast
  - Bightness normal
- 2. Position neck ass'y as shown in Fig 3-2.
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.

(See Figures 3-1 through 3-3.)

- 5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1.)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctry in all the corners, use a magnet to adjust it.

  (See Figure 3-4.)



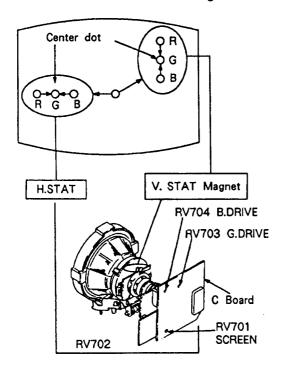


# 3-2. CONVERGENCE

## Preparations:

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

# (1) Horizontal and vertical static convergence



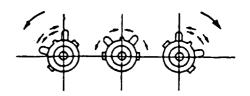
- 1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.

If the H.STAT variable resistor can not bring the

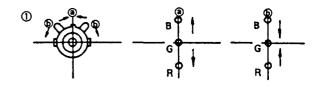
red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.

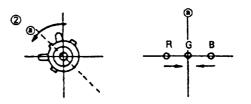
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other's settings.)

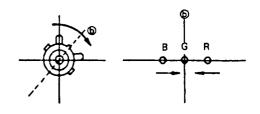
 Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

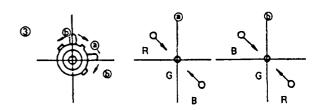


4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.

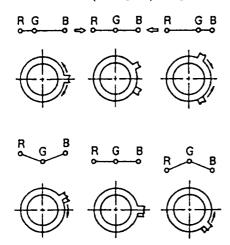








• Operation of BMC (Hexapole) Magnet



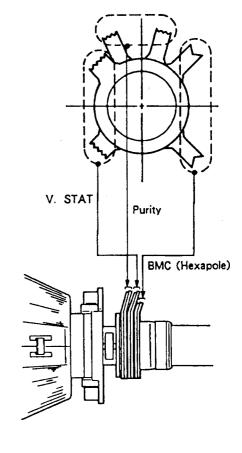
 The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.

Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

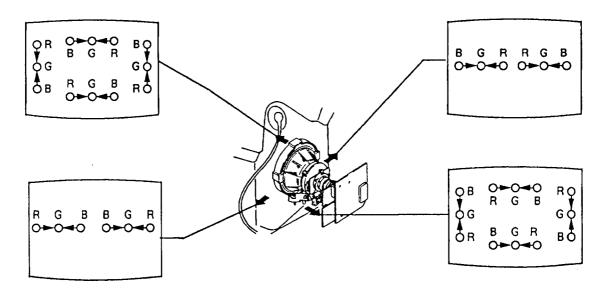


Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

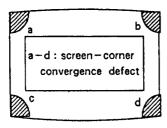
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.



- 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Install the defelection yoke spacer.

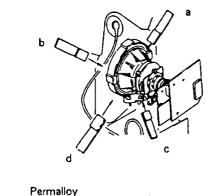


# (3) Screen corner convergence



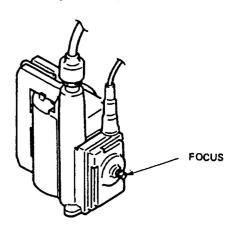


Install the permalloy assembly for the section with faulty.



## **3-3. FOCUS**

Adjust the focus to optimize the screen.



# 3-4. WHITE BALANCE

# [Screen G2 setting]

- 1. Input the dot signal from the pattern generator.
- 2. Set the picture brightness control to its lowest level.
- 3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
- 4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

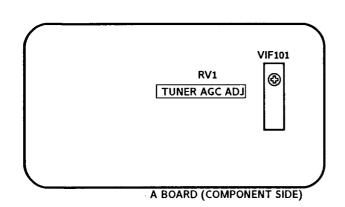
# [ White balance adjustment ]

- 1. Input an all-white signal from the pattern generator.
- 2. Set the picture brightness and color controls to their normal levels.
- 3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

# SECTION 4 CIRCUIT ADJUSTMENTS

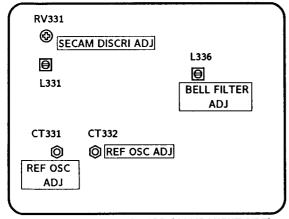
# 4-1. A BOARD ADJUSTMENT



# TUNER AGC ADJUSTMENT (VIF101, RV1)

- 1. Align with an appropriate signal between stations.
- 2. Adjust RV1 so that snow noise and cross modulation just disappear from the picture.

# 4-2. B BOARD ADJUSTMENTS



B BOARD (COMPONENT SIDE)

# REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8MHz)

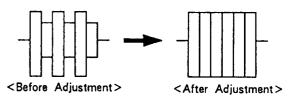
- 1. Input a PAL color bar signal.
- 2. Ground pin ® of the IC331.
- 3. Adjust CT332 to obtain synchronization.

# REFERENCE OSCILLATOR ADJUSTMENT (CT331 7.16MHz)

- 1. Input an NTSC color bar signal.
- 2. Ground pin ® of IC331.
- 3. Adjust the CT331 to obtain synchronization.
- 4. Remove the jumper grounding pin @ of IC331.

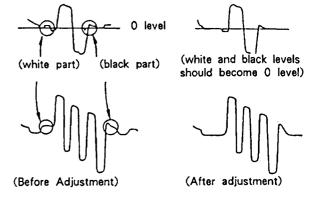
# **BELL FILTER ADJUSTMENT (L336)**

- 1. Input a SECAM color bar signal.
- 2. Connect the oscilloscope to the emitter of Q335.
- 3. Adjust L336 so that the waveform is flat.

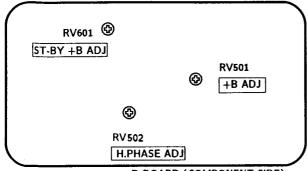


# DISCRIMINATION ADJUSTMENT (RV331 and L331)

- 1. Input a SECAM color bar signal.
- 2. Connect the oscilloscope to pin ① of IC331.
- 3. Adjust RV331 so that the white and black sections of the waveform at pin ① come to the 0 level.
- 4. Connect the oscilloscope to pin 3 of IC331.
- 5. Adjust L331 so that the white and black sections of the waveform at pin 3 come to the 0 level.



# 4-3. D BOARD ADJUSTMENTS



D BOARD (COMPONENT SIDE)

# +B ADJUSTMENT (RV501)

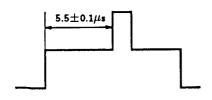
- 1. Connect the digital multimeter to TP91.
- 2. Adjust RV501 to obtain  $135 \pm 0.2$ V.

# ST-BY +B ADJUSTMENT (RV601)

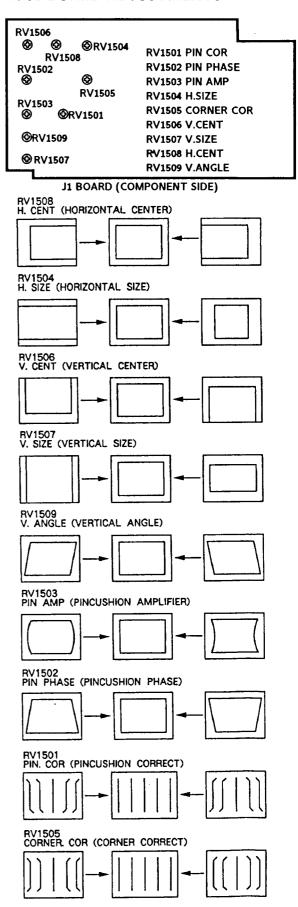
- 1. Put the system into  $\circlearrowleft$  standby mode (remote commander).
- 2. Connect the digital multimeter to TP91.
- 3. Adjust RV601 to obtain  $135 \pm 3V$ .
- 4. Take the system out of  $\circlearrowleft$  standby mode (remote commander).

# H.PHASE ADJUSTMENT (RV502)

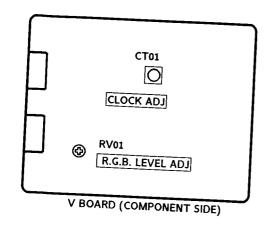
- 1. Input a PAL color bar signal.
- 2. Set the picture and brightness controls to their normal levels.
- 3. Set RV1508 (H.CENT) to its mechanical center.
- 4. Connect the oscilloscope to pin (SCP) of IC
- 5. Rotate RV502 to adjust to  $5.5 \pm 0.1 \mu s$ .



# 4-4. J1 BOARD ADJUSTMENTS



# 4-5. V BOARD ADJUSTMENTS



# **CLOCK ADJUSTMENT (CT01)**

- Remove the V-1 connector pin3.
- 2. Put the system into text mode.
- Adjust CT01 so that the picture does not move. 3.

# RGB LEVEL ADJUSTMENT (RV01)

- Maximize the picture setting.
- Adjust RV01 so that the RGB output is 0.75V. 2.

# 4-6. SECONDARY ADJUSTMENT

# SUB BRIGHTNESS ADJUSTMENT

- Set the system to receive a test pattern.
- Press --- on the remote commander to put the system into normal mode.
- Switch off the power. 3.
- While depressing the adjusting buttons + and - simultaneusly, turn on the power. (SUB mode is obtained)
- Minimize the O contrast setting.
- 6. Adjust the D brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
- 7. Depress the  $\diamondsuit$  (store) button of the remote commander.

(SUB mode is released)

If there is no test color pattern

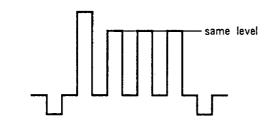
- Set the system to receive a color pattern.
- 2. Press on the remote commander to put system into normal mode.

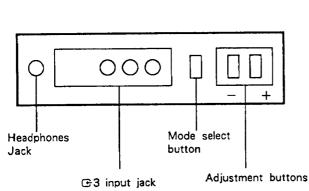
Set the 3 color to its normal state.

- 3-5. are the same as above.
- 6. Since 20 IRE is nearly blue, adjust the  $\mbox{$\sharp$}$ brightness control so that the blue barely glows.
- 7. is the same as above.
- 8. Press →•← on the remote commander to put the system into normal mode.

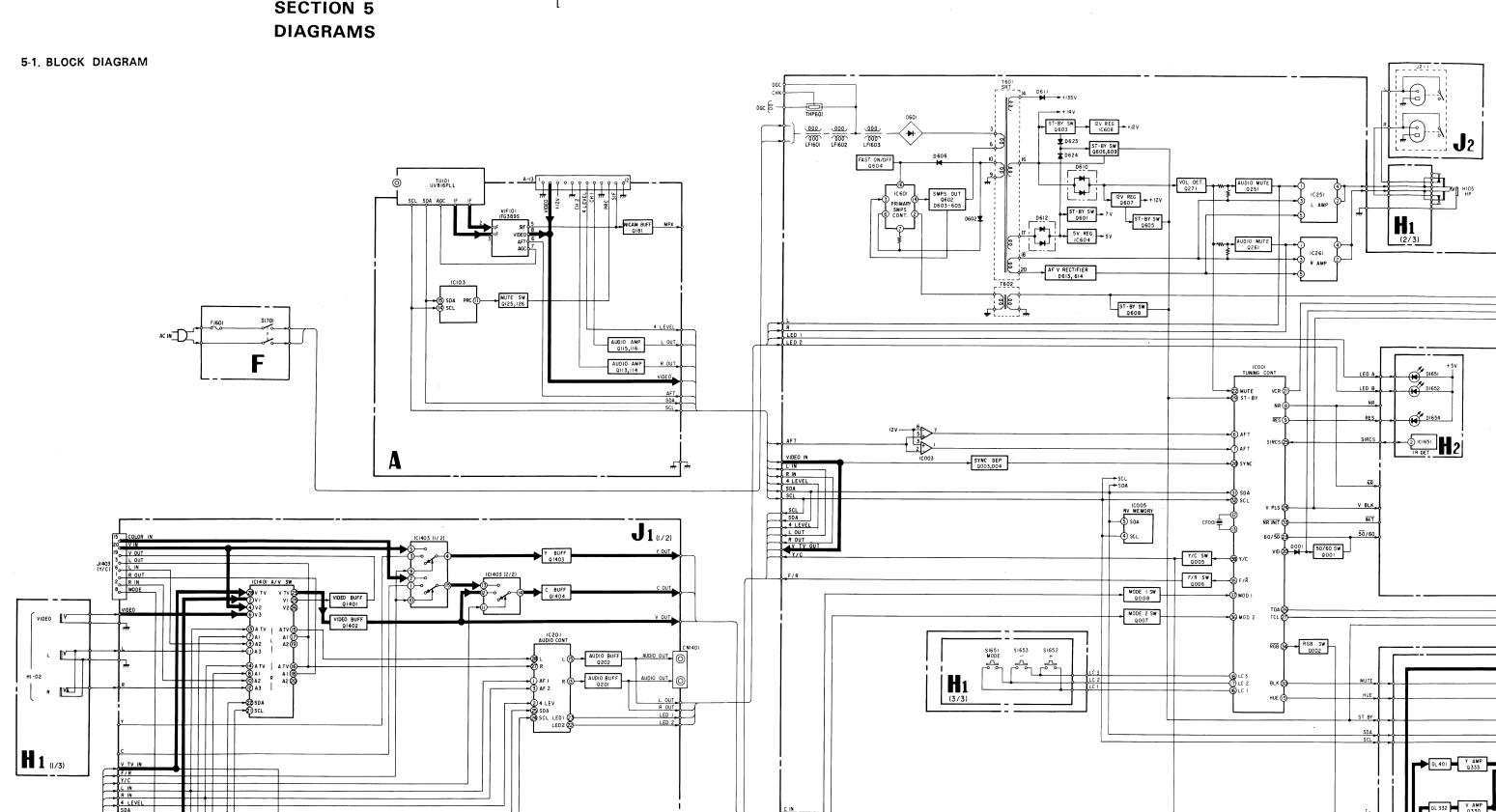
# SUB COLOR ADJUSTMENT

- 1. Set the system to receive color bars.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Cut off the power.
- 4. While depressing the adjustment buttons + and simultaneusly, turn on the power. (SUB mode is obtained)
- 5. Adjust the color control so that the B out waveform (pin 2 of C board connector CNC72) is as shown in the figure below.
- 6. Depress the  $\diamondsuit$  (store) button of the remote commander. (SUB mode is released)

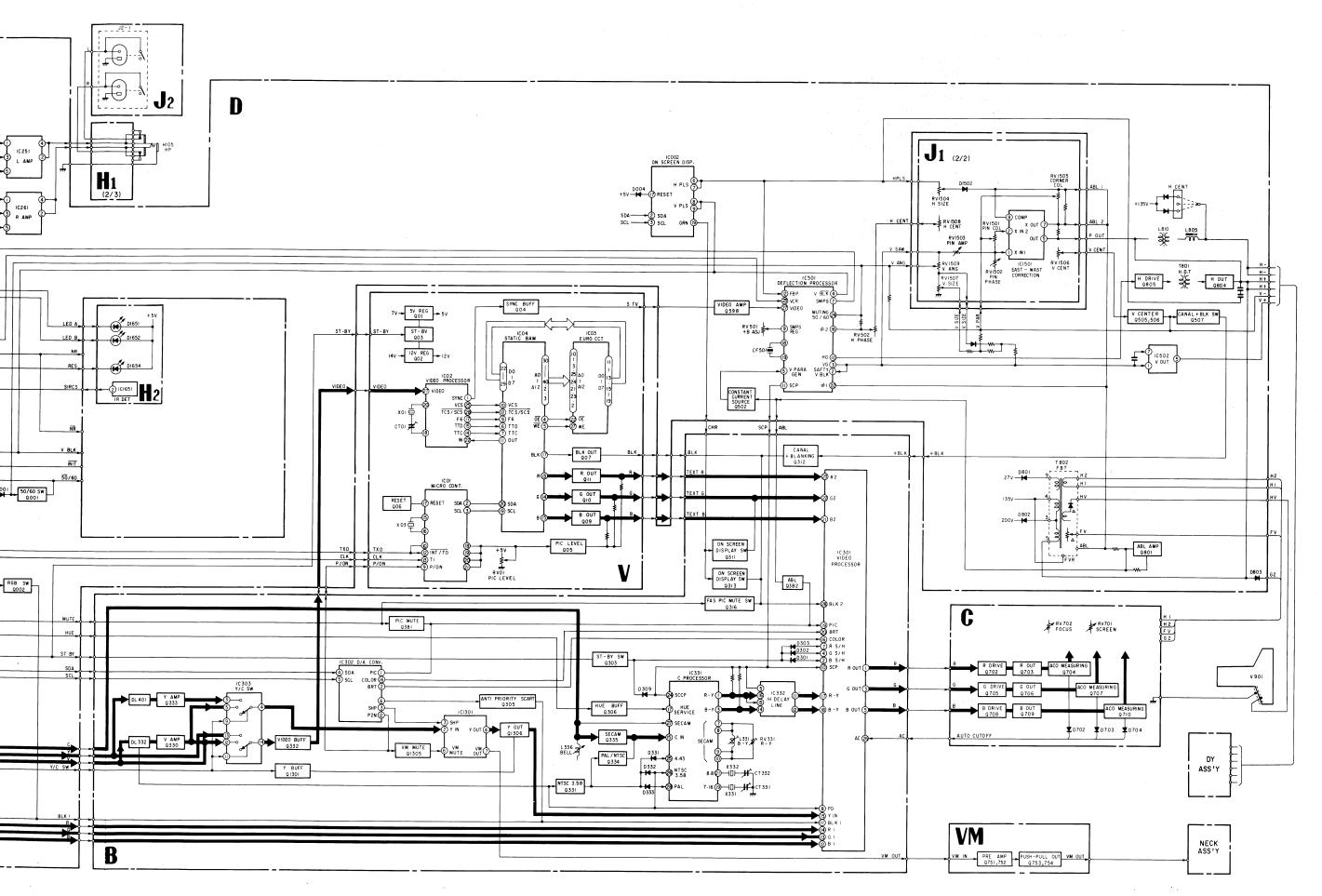




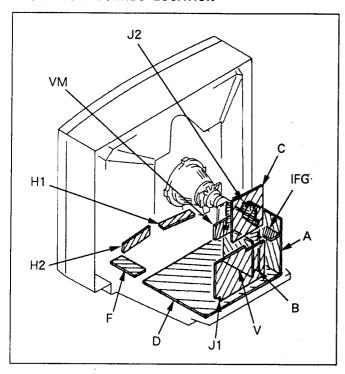
MEMO		
		·
·		
	<u>:</u>	
·		



B



# 5-2. CIRCUIT BOARDS LOCATION



Note: The components identified by shading and mark

A are critical for safety. Replace only with part number specified.

## Note

- All capacitors are in  $\mu F$  unless otherwise noted.  $pF: \mu \mu F$  50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm Rating electrical power: 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms.  $k\Omega = 1000\Omega$ ,  $M\Omega = 1000k\Omega$
- Em : nonflammable resistor.
- fusible resistor.
- △: internal component.
- panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve Bunless otherwise noted.
- · All voltages are in V.
- Readings are taken with a  $10M\Omega$  digital multimeter.
- · Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ---: B + line.
- signal path.

## Reference information

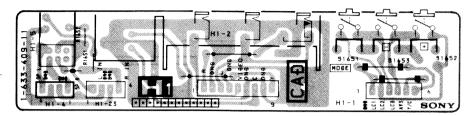
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ♥	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPQLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

J2 TUNER, SIF, VIF

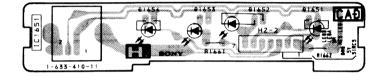
# 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

-Conductor Side-

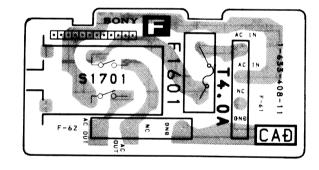
-H1 Board-



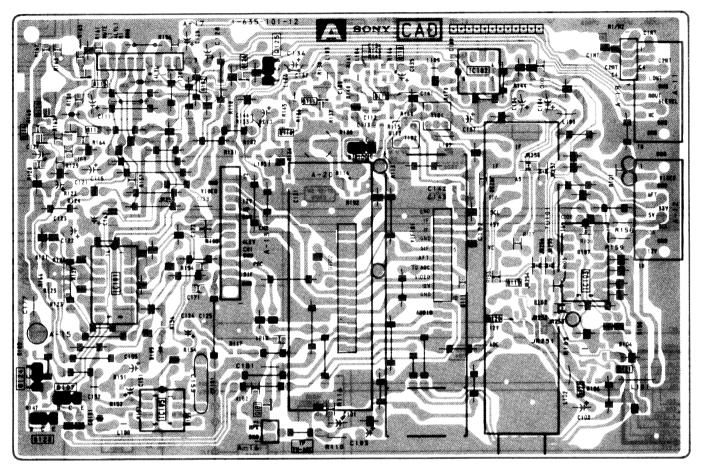
# -H2 Board-



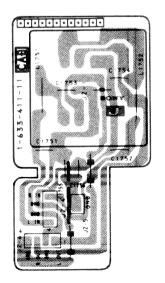
# -F Board-



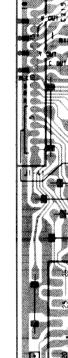
# -A Board-



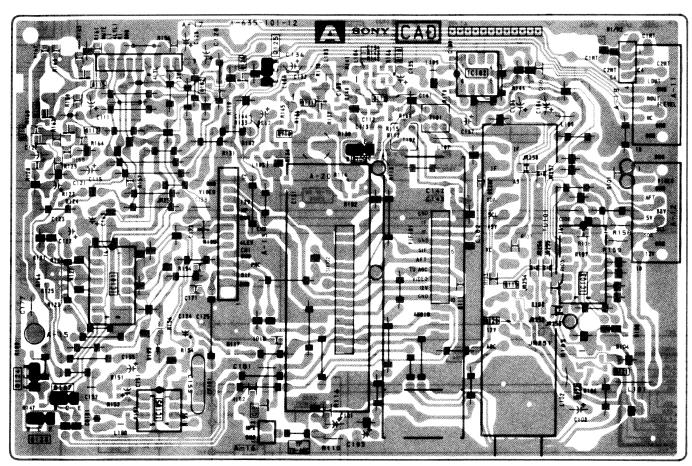
-J2 Board-



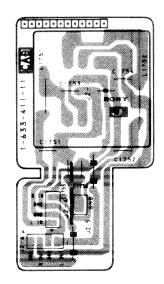
# -J1 Board



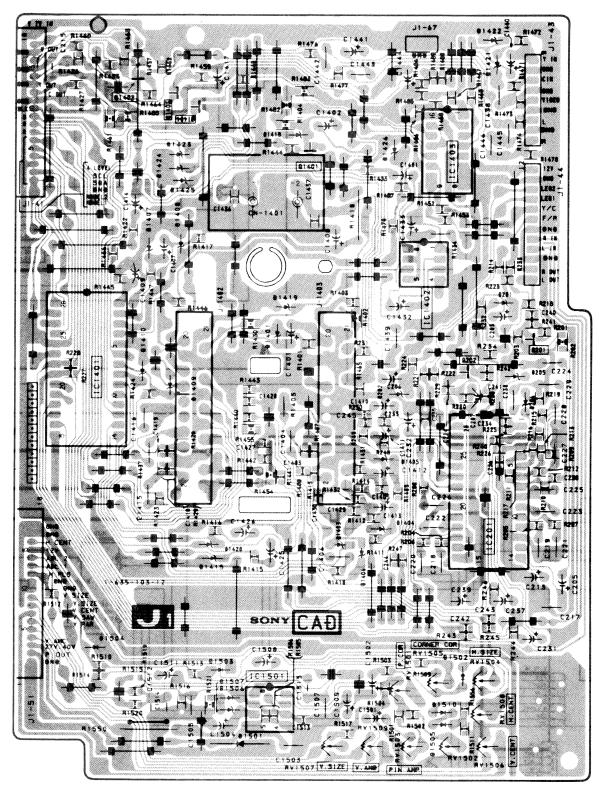
# $-\mathsf{A}\ \mathsf{Board}-$

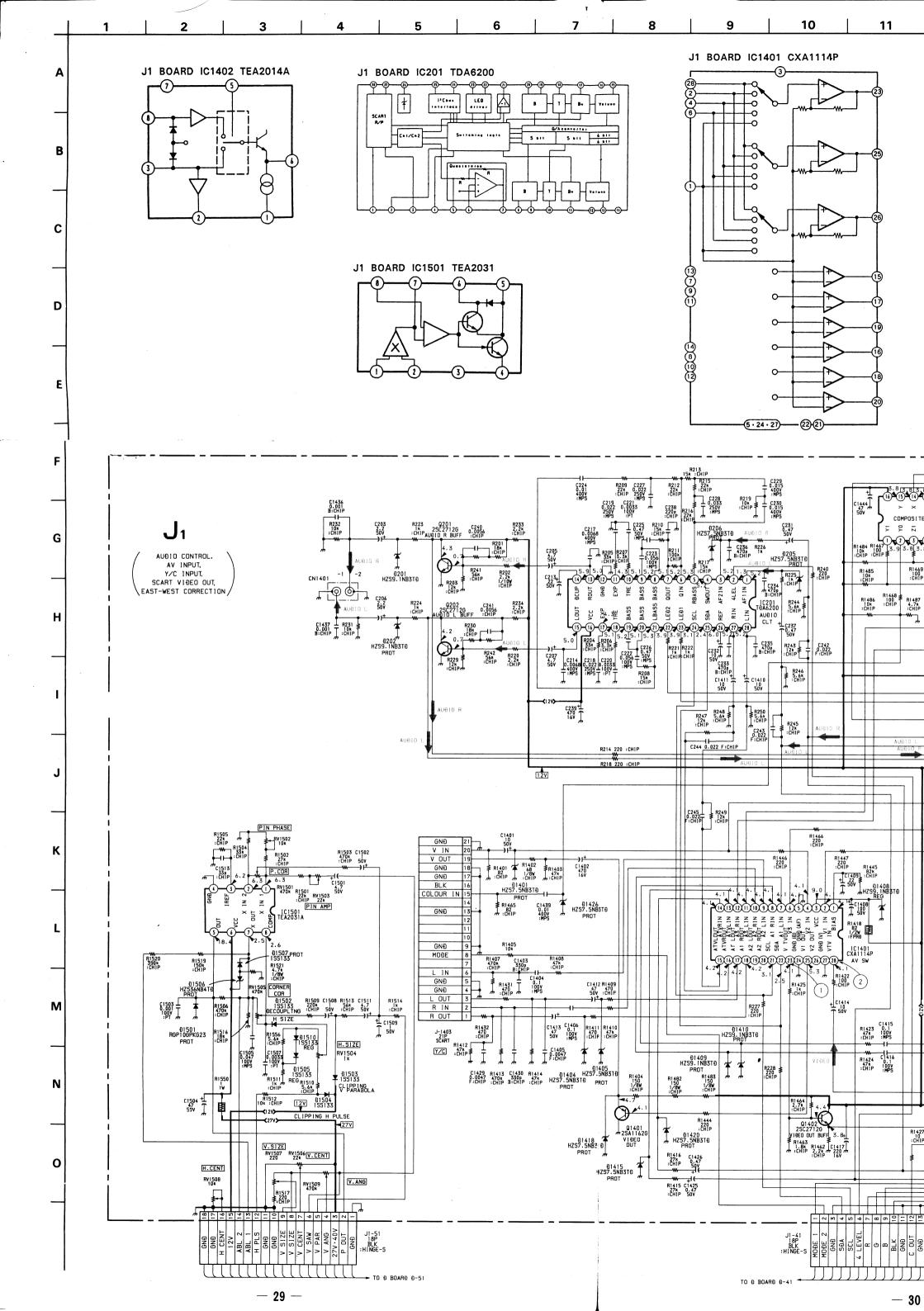


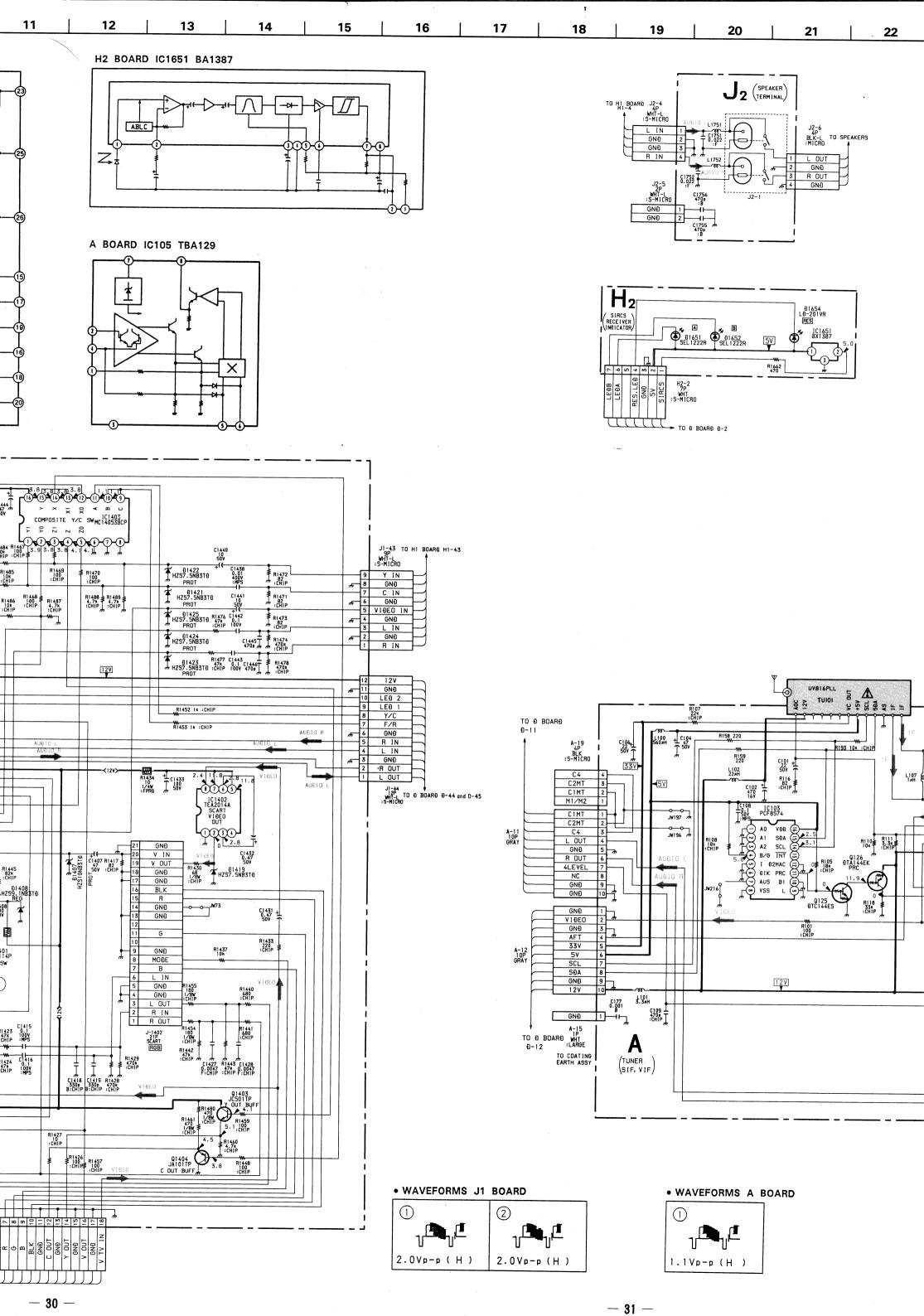
-J2 Board-

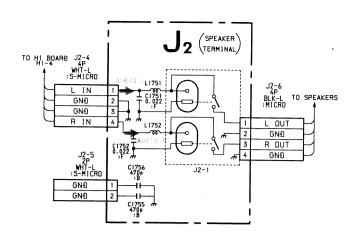


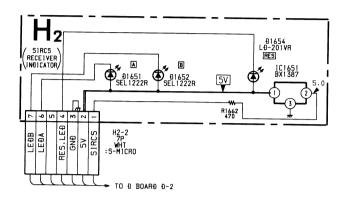
- J1 Board -

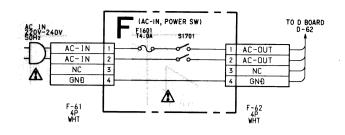


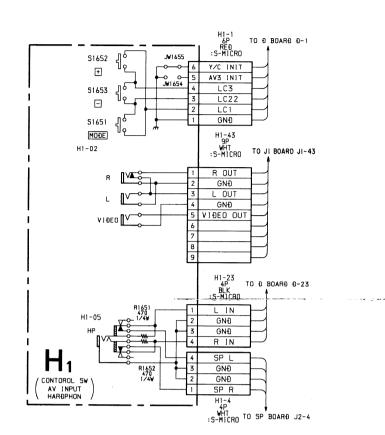


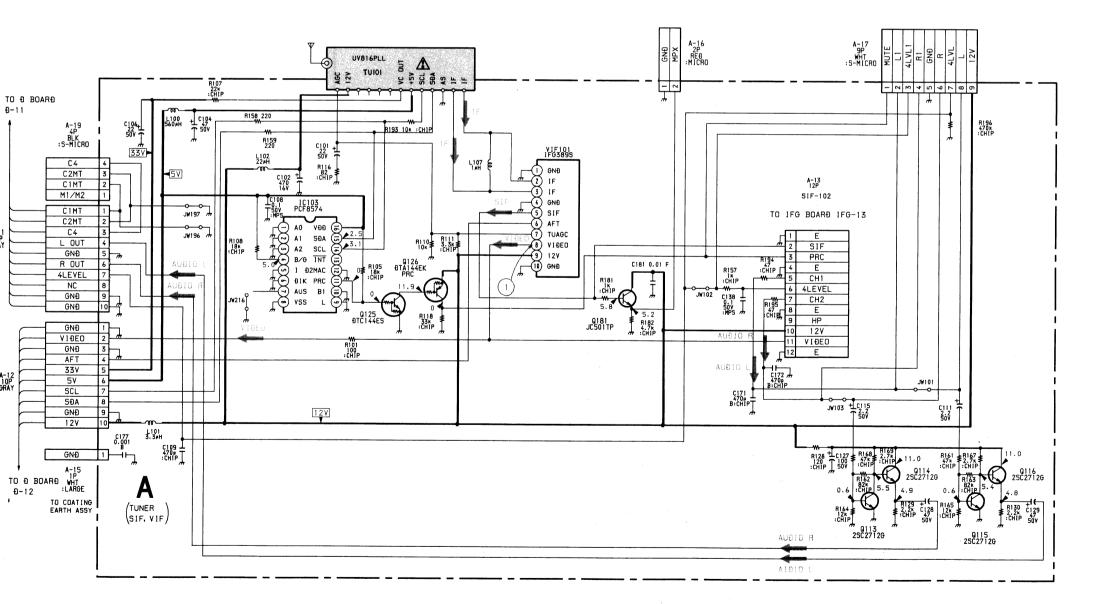




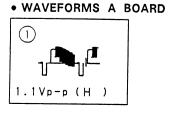




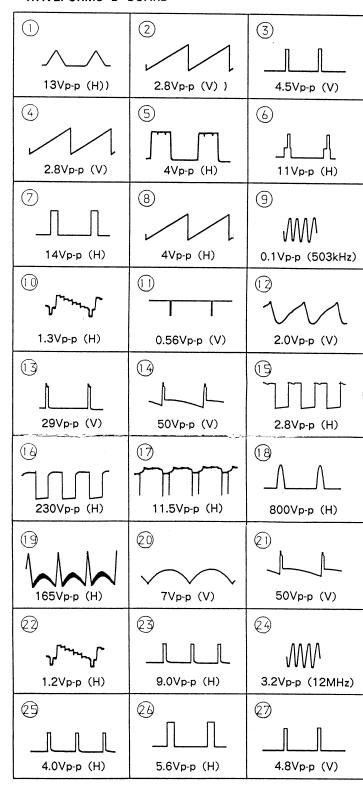








# • WAVEFORMS D BOARD



Α

В

С

D

Ε

G

Н

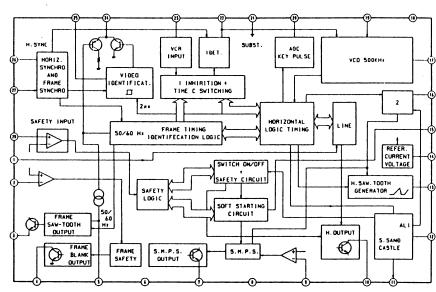
Κ

M

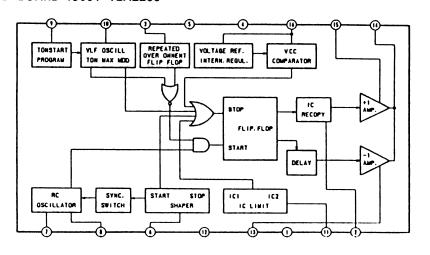
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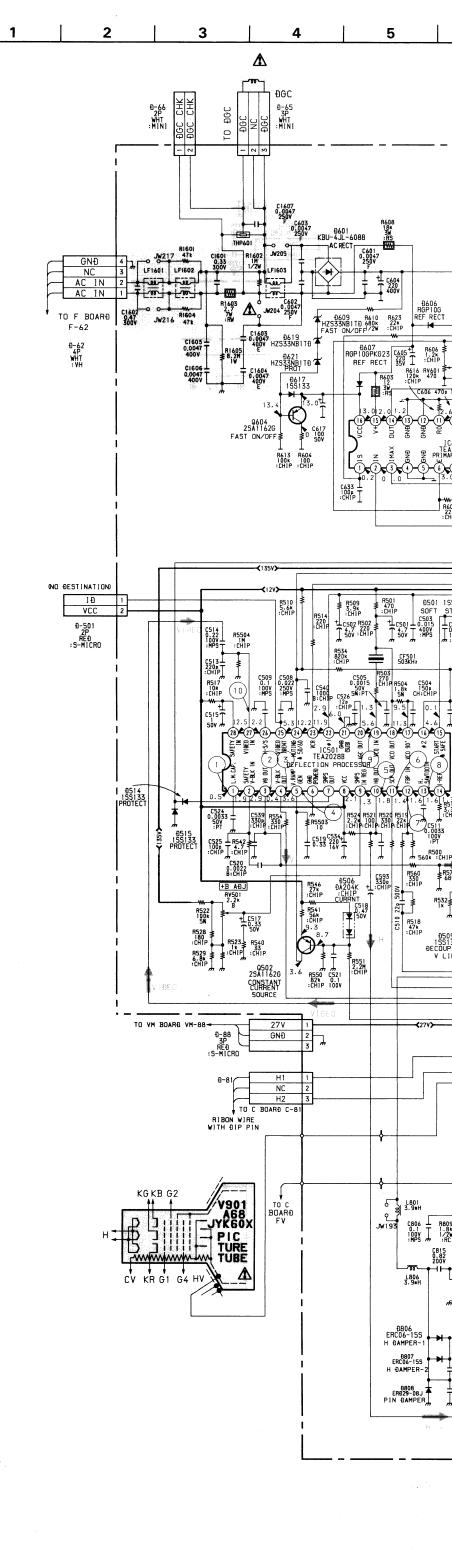
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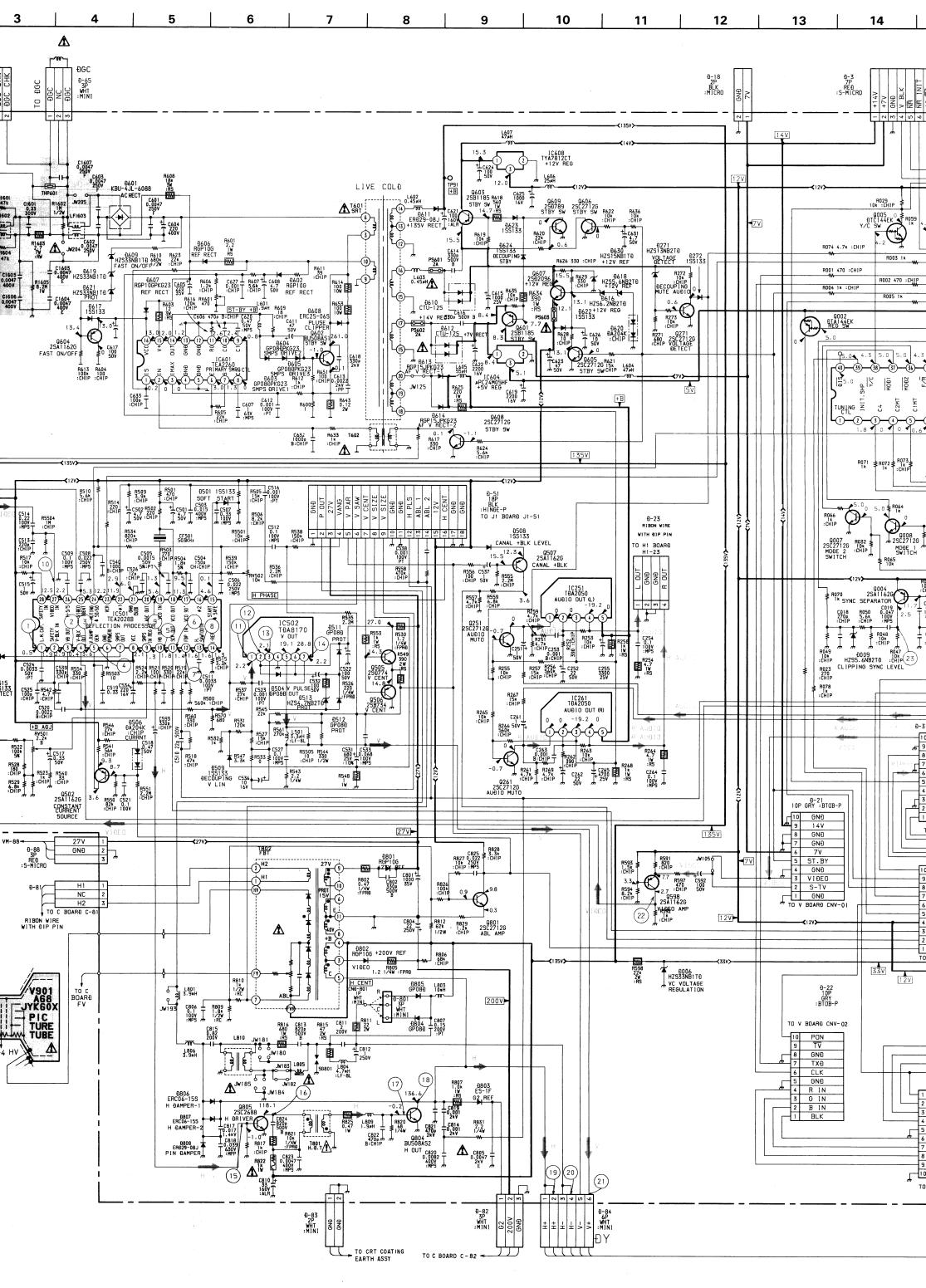
# D BOARD IC501 TEA2028B

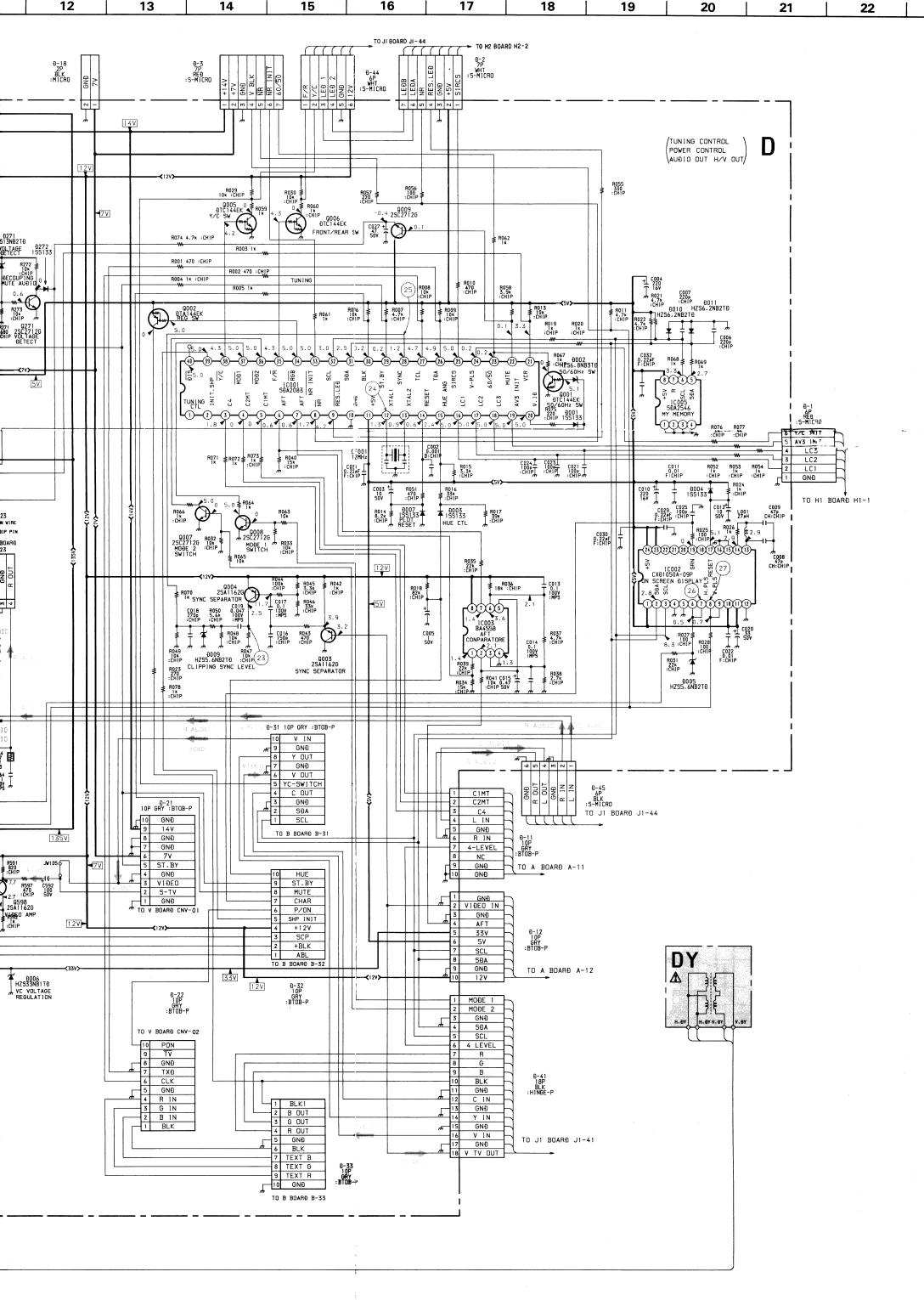


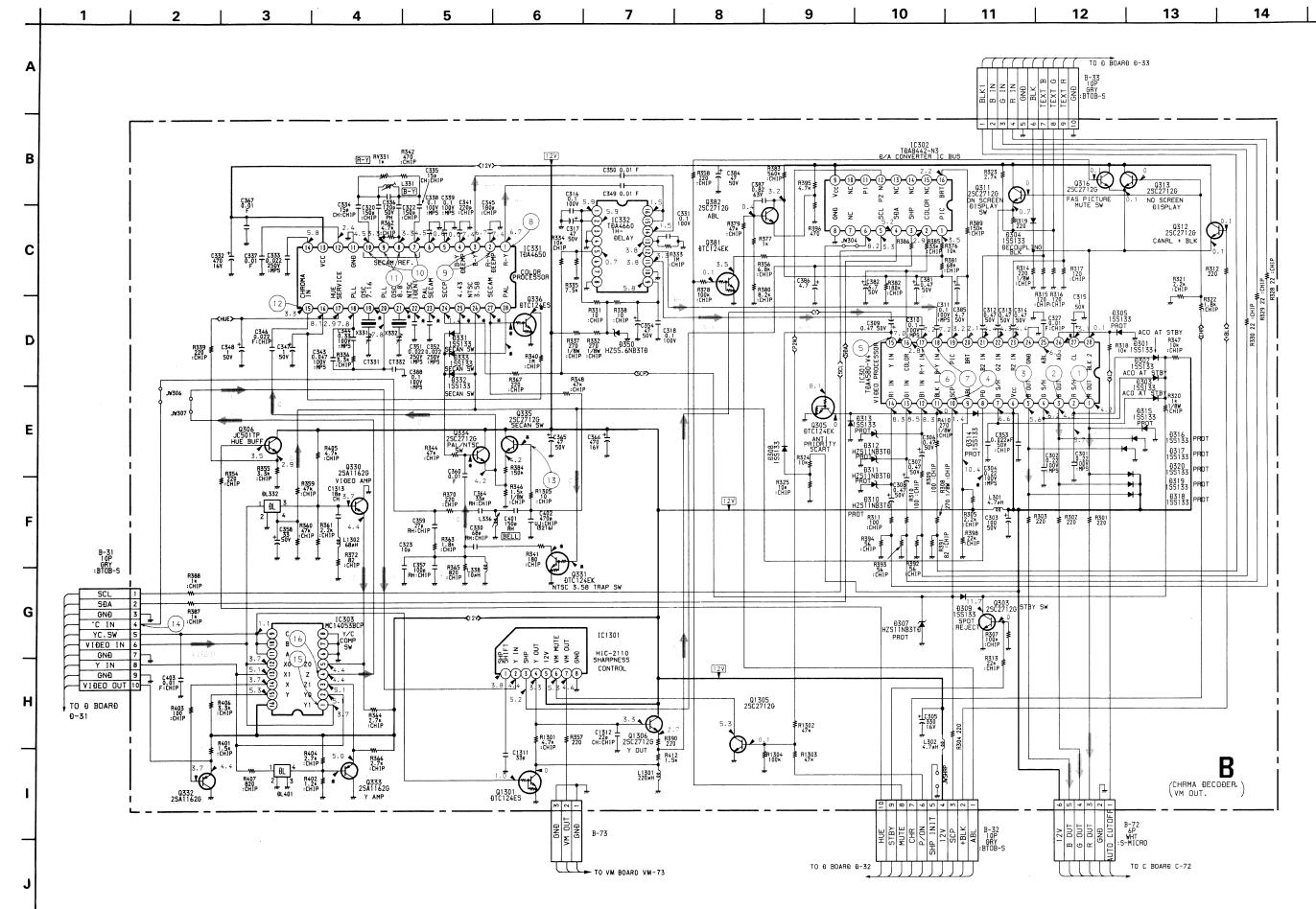
# D BOARD IC601 TEA2260











16

15

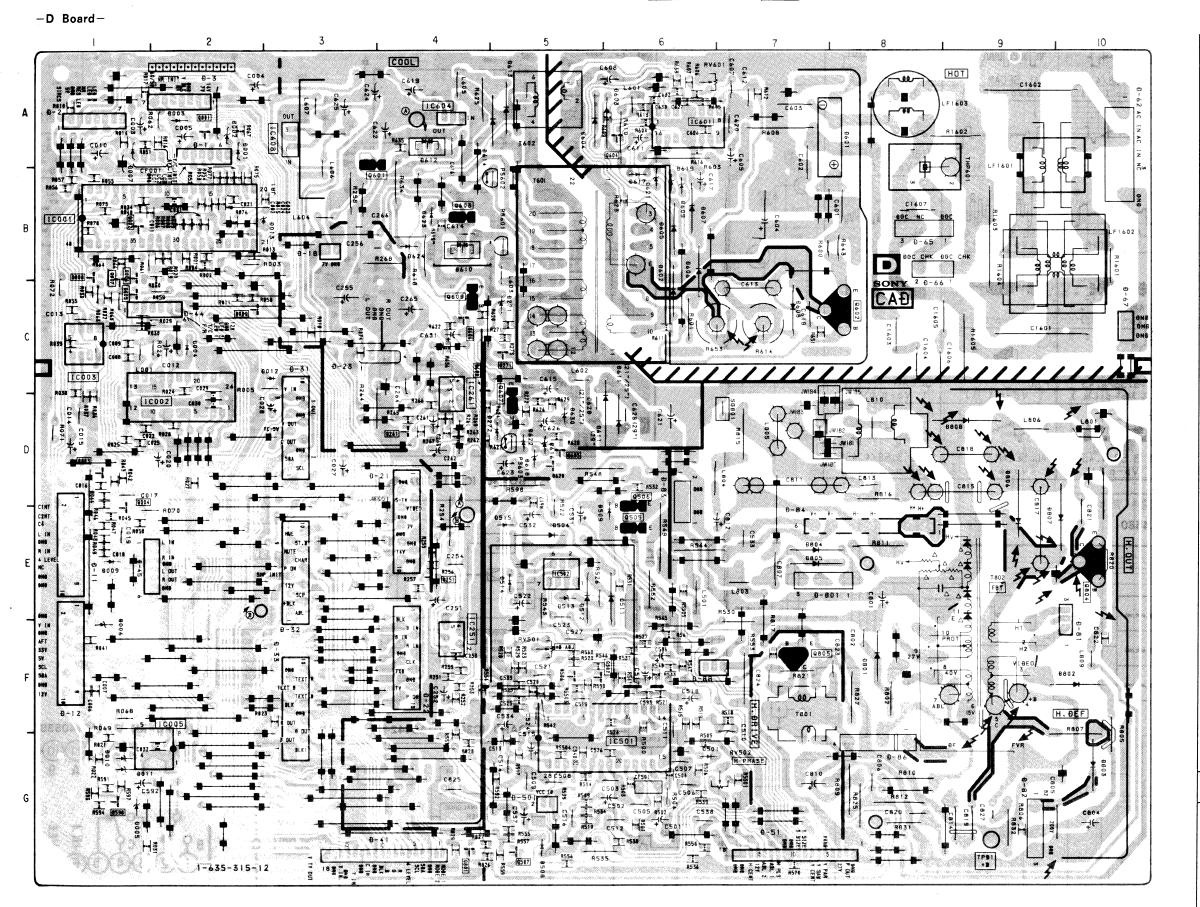
• WAVEFORMS B	BOARD
PAL. SECAM 4.8Vp-p (H)	NTSC 3.
(4) 1 Vp-p (H)	9 PAL 0.4Vp-
7 — 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/	7 NTSC 3.
9 	9 NTSC 3. 0.6 Vp
NTSC 3.58/4.43 0.05/p-p(H)	PAL 0.4 Vp-
NTSC 3.58/4.43	PAL 1 Vp-

As to the voltage volue shown by mark % on the Schematic Diagram the another list.

		PAL	SECAM	NTSC3.58	NTSC4.43
IC301	<b>(1)</b>	0.1	0.1	5.8	0.1
	(B)	6.7	6.8	5.1	5.1
IC331	<b>回</b>	3.1	3.6	3.1	2.8
	(ii)	3.0	3.5	2.9	2.7
	$\overline{n}$	5.6	5.6	7.1	7.2
	(23)	7.5	7.0	5.6	5.6
	(B)	0.1	0.1	0.1	5.8
İ	(B)	0.1	0.1	5.8	0.1
İ	(ii)	0.1	5.8	0.1	0.1
1	(20)	5.9	0.1	0.1	0.1
0331	(B)	0.1	0.1	5.8	0.1
l	(C)	1.5	1.9	0	0.8
Q333	(B)	3.4	4.4	4.4	4.4
Q334	(B)	4.9	0.1	4.8	4.8
Q335	(B)	0.1	4.8	0.1	0.1
Q336	(B)	0.1	5.8	0.1	0.1
l	(C)	7.3	0	7.3	7.3

TUNING CONTROL, POWER CONTROL, AUDIO OUT, H/V OUT

D



10	2	D007 D009	A-1 E-1
IC001	B-2	D010	G-1
IC002 IC003	D-2 C-1	D011 D271	G-1 C-5
IC005	G-2	D271	D-5
IC251	F-4	D501	G-6
IC261 IC501	C-4 G-6	D504 D506	E-5 E-6
IC502	E-5	D508	G-5
IC601	A-6 A-4	D509	D-6
IC604 IC608	A-4 A-3	D511 D512	E-6 E-5
		D513	E-5
TRANS	SISTOR	D514 D515	E-5 E-5
		D601	A-8
Q001 Q002	A-2 B-1	D602	C-6 A-6
0003	D-1	D604	A-5
Q004 Q005	D-1 C-1	D605 D606	B-6 B-6
0006	B-1	D607	B-6
Q007	C-1	D608	C-7
Q008 Q009	C-1 C-2	D609 D610	B−6 B−4
Q251	E-4	D611	D-6
Q261 Q271	D-4 C-5	D612 D613	A-4 A-5
Q502	F-6	D614	A-5
Q505 Q506	E-6 E-6	D616 D617	D-5 B-6
Q507	G-5	D617	D-5
Q598	G-1	D619	B-6
Q601 Q602	B-4 C-8	D620 D621	D-5 B-6
Q603	B-4	D622	D-5
Q604 Q605	A-6 D-5	D623 D624	B-4 B-4
Q606	C-4	D630	D-5
Q607 Q608	D-5 C-4	D801	F-8 F-10
Q609	C-4 C-4	D802 D803	G-10
Q801	G-4	D804	E-7
Q804 Q805	E-10 F-7	D805 D806	E-7 E-9
		D807	E-10
DIODE		D808	D-9
DIO			
D001 D002	A-2 A-2		IABLE
D003	A-2	RESI	STOR
D004 D005	C-2 G-1	RV501 RV502	F-5 G-7
D006	F-1	RV601	A-6
		I	



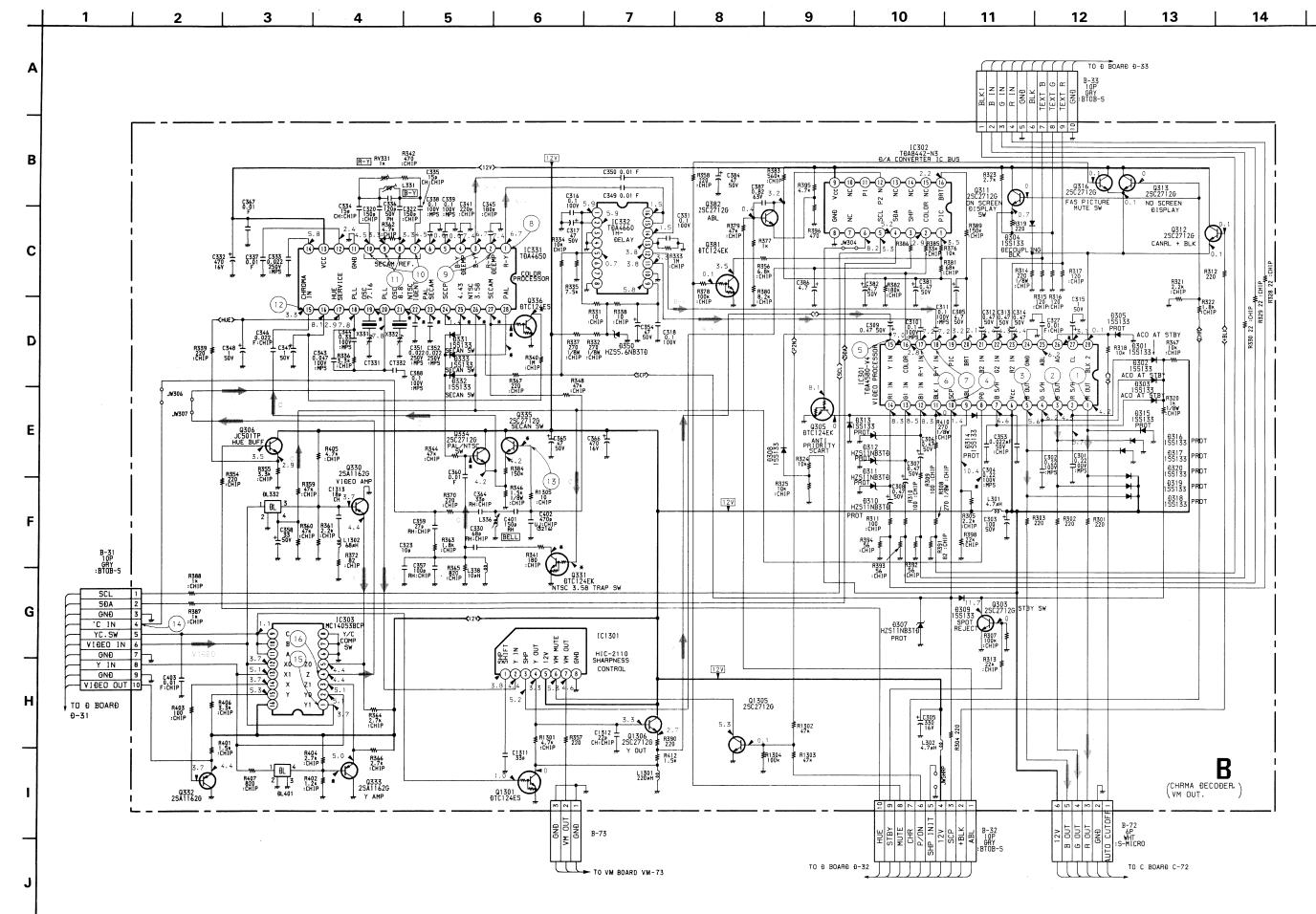
07	A-1
09	E-1
10	G-1
11	G-1
71	C-5
72	D-5
01	G-6
04	E-5
06	E-6
08	G-5
09	D-6
11	E-6
12	E-5
13	E-5
14	E-5
15	E-5
01	A-8
02	C-6
03	A-6
04	A-5
05	B-6
06	B-6
07	B-6
08	C-7
09	
10	B-6
11	B-4 D-6
12	A-4
13	A-5
14	A-5
16	D-5
17	B-6
18	D-5
19	B-6
20	D-5
21	B-6
22	
23	D-5 B-4
23 24	B-4 B-4
30	D-5
)1	F-8
)2	F-10
03	G-10
)4	E-7
) <del>4</del> )5	E-7
	E-7
)6 )7	
)7 )8	E-10 D-9
70	ח–פ

# 'ARIABLE RESISTOR

501	F-5
502	G-7
501	A-6



The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



# • WAVEFORMS B BOARD

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16

T TTAVEL OTTIVIO B I	- TOAILD
PAL. SECAM 4.8Vp-p (H)	NTSC 3 4.8 Vp
(4) 1 Vp-p(H)	PAL 0.4Vp
7) ————————————————————————————————————	7 NISC 3
(9) 	9 NTSC 3. 0.6 Vp
12 NTSC 3.58/4.43 0.05Vp-p(H)	PAL 0.4Vp-
NTSC 3.58/4.43	15) PAL 1 Vp-

As to the voltage volue shown by mark % on the Schematic Diagram, the another list.

	PAL	SECAM	NTSC3.58	NTSC4.43
10301(1)	0.1	0.1	5.8	0.1
(26)	6.7	6.8	5.1	5.1
IC331 (19)	3.1	3.6	3.1	2.8
1 0	3.0	3.5	2.9	2.7
1 22	5.6	5.6	7.1	7.2
3	7.5	7.0	5.6	5.6
1 3	0.1	0.1	0.1	5.8
1 26	0.1	0.1	5.8	0.1
1 27	0.1	5.8	0.1	0.1
28	5.9	0.1	0.1	0.1
Q331 (B)	0.1	0.1	5.8	0.1
(C)	1.5	1.9	0	0.8
Q333 (B)	3.4	4.4	4.4	4.4
Q334 (B)	4.9	0.1	4.8	4.8
Q335 (B)	0.1	4.8	0.1	0.1
Q336 (B)	0.1	5.8	0.1	0.1
(C)	7.3	0	7.3	7.3

# CHROMA DECODER VM OUT

## • WAVEFORMS B BOARD

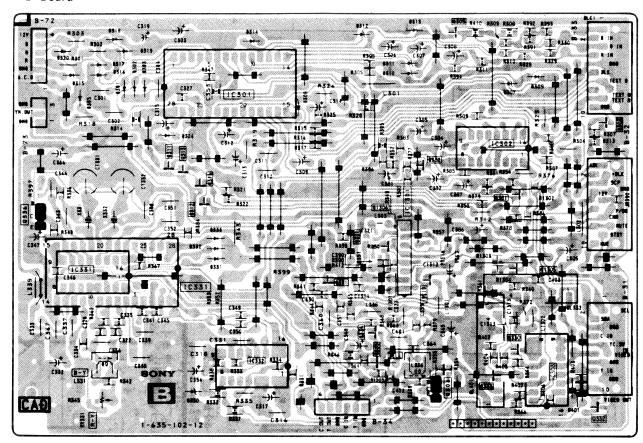
the another list.

Q331 (B) 0.1 0.1

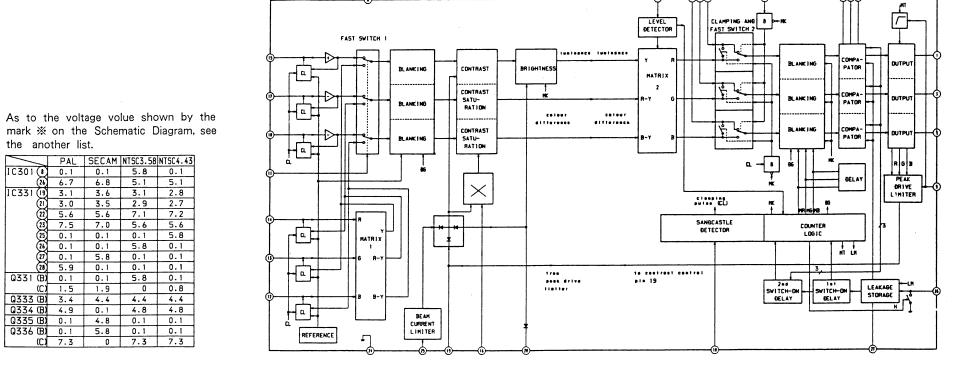
(C) 1.5 1.9

		2	2	3	3
				ռշխուշխուշխո	म्युक् म्युक
PAL. SECAM	NTSC 3.58/4.43	PAL, SECAM	NTSC 3.58/4.43	PAL, SECAM 4.8Vp-p (H)	NTSC 3.58/4.43 4.8Vp-p (H)
4	(5)	5	(5)	6	6
	Jana Jana	Jana Jana	TH-	\ <u>\</u> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
1 Vp-p (H )	PAL 0.4Vp-p ( H )	SECAM 0.36 Vp-p(H)	NTSC 3.58/4.43 0.46Vp-p (H)	PAL, SECAM 0.9Vp-p ( H )	NTSC 3.58/4.43 0.7Vp-p ( H )
7	7,	8	8	8, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9
<del></del>		1///	-1[\1[\1] \-		
PAL, SECAM 1.1Vp-p (H)	NTSC 3.58/4.43 1 Vp-p ( H )	PAL 0.5Vp-p(H)	SECAM 1.1 Vp-p (H )	NTSC 3.58/4.43 0.4Vp-p ( H )	PAL 0.6Vp-p(H)
9	9	10	(1)	12	
—#WT-WW-WW					
SECAM 1.3Vp-p (H)	NTSC 3.58/4.43 0.6 Vp-p(H)	SECAM 1.4 Vp-p (H)	SECAM 0.2Vp-p(H)	PAL 0.2Vp-p (H )	SECAM 0.12Vp-p (H )
12	(3)	(3)	13	14	13
10-0-0000-0-00			Laborate Laborate Lab	م ال <b>مس</b> ارات	Span Participan
NTSC 3.58/4.43 0.05Vp-p (H)	PAL 0.4Vp-p ( H )	SECAM 0.1 Vp-p(H)	NTSC 3.58/4.43 0.4 Vp-p (H)	PAL 1 Vp-p ( H )	SECAM 1 Vp-p ( H )
(14)	(15)	(15)	(15)	16	16
-p		The Park Park	-10	_ المسهمال	
NTSC 3.58/4.43  .1Vp-p(H)	PAL 1 Vp-p ( H )	SECAM 0.9Vp-p(H)	NTSC 3.58/4.43 1 Vp-p(H)	PAL, SECAM O.4Vp-p ( H)	NTSC 3.58/4.43 0.54Vp-p (H )

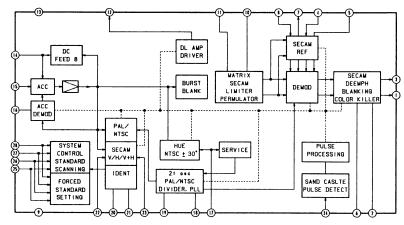
# -B Board-

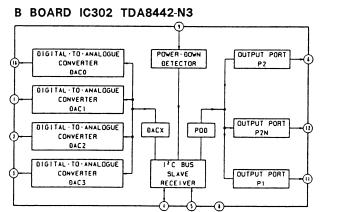


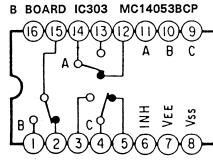
## B BOARD IC301 TDA4580



# • B BOARD IC331 TDA4650

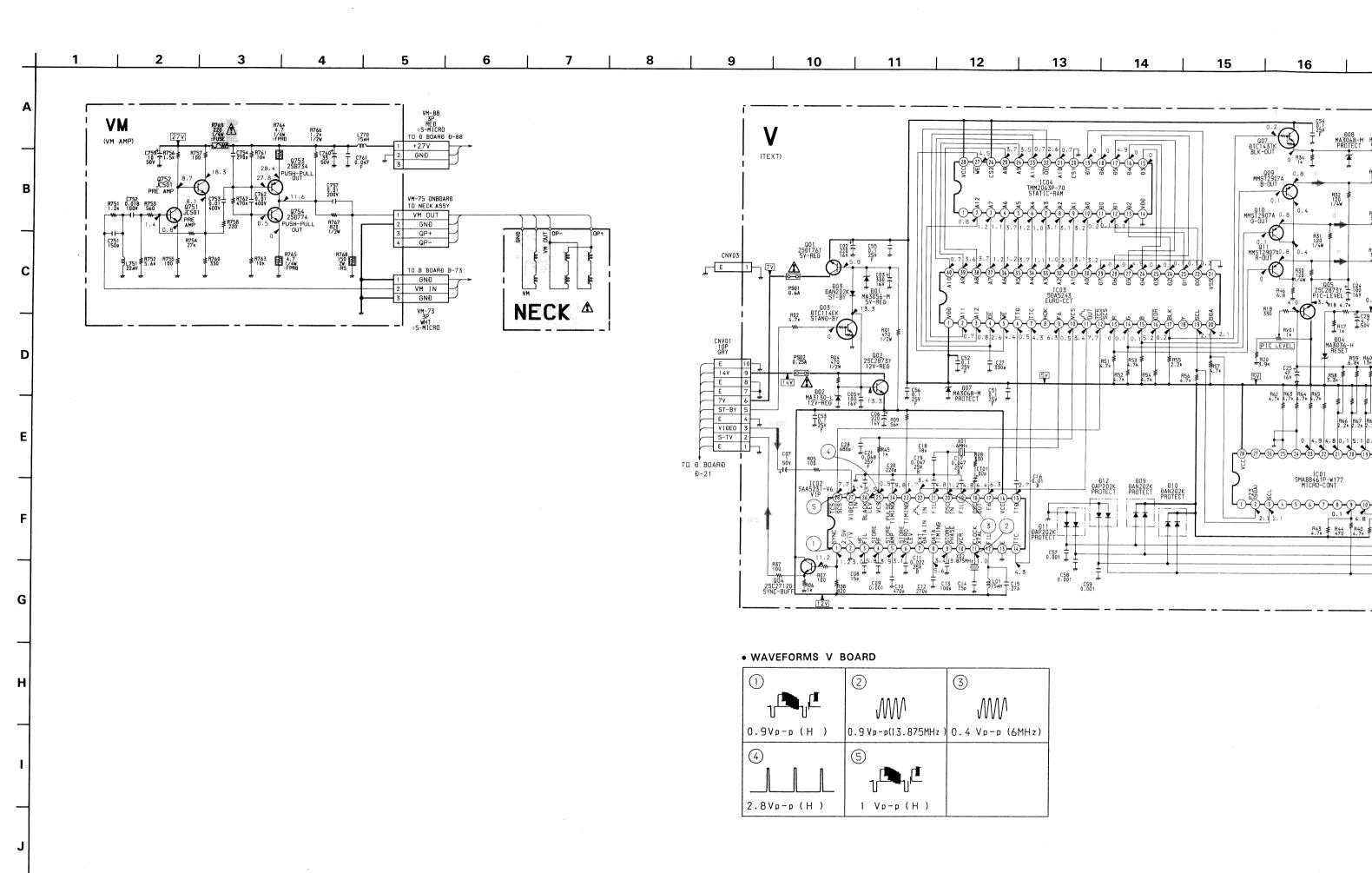




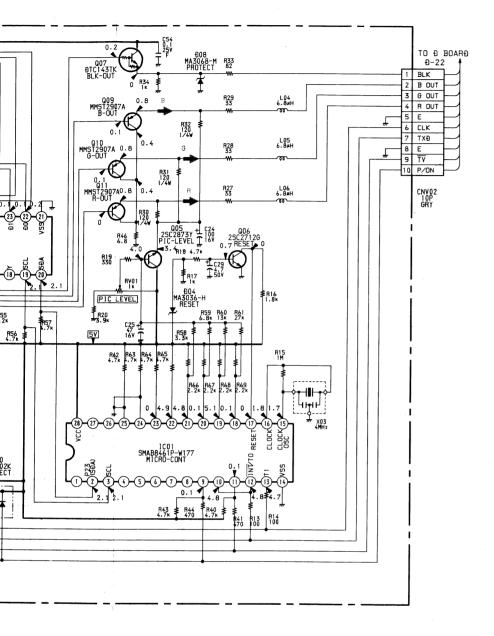


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-44 -

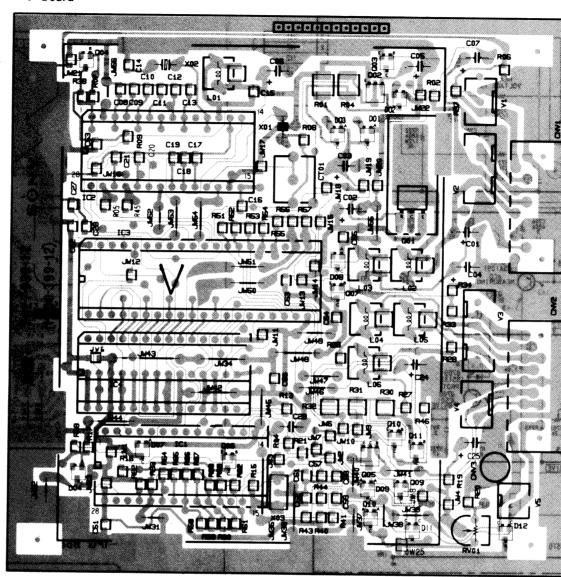


15 | 16 | 17 | 18 | 19 |

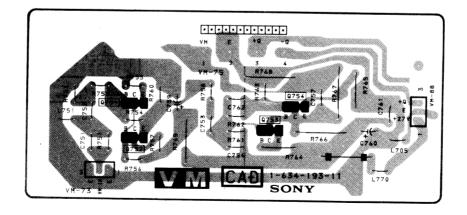


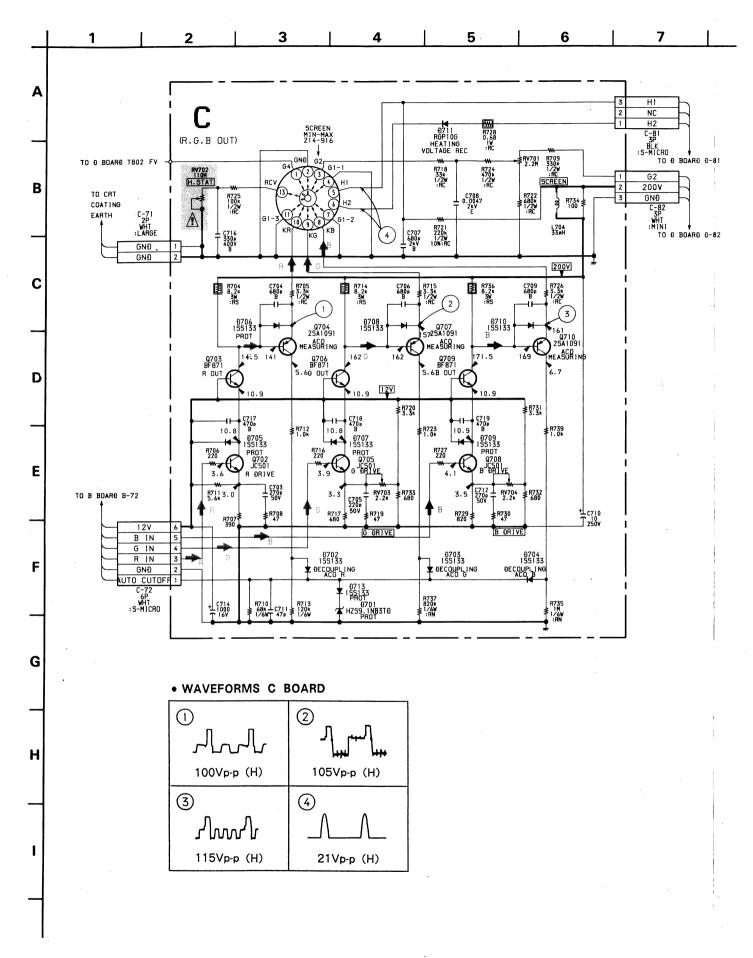


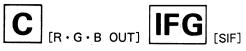
#### -V Board-



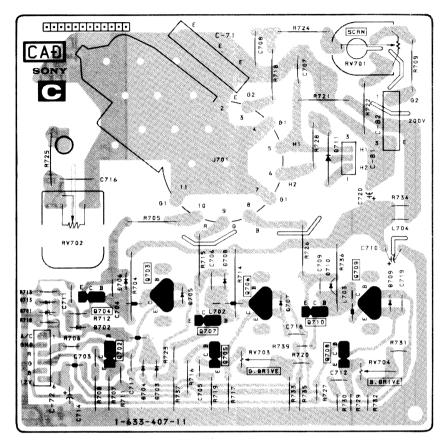
#### -VM Board-



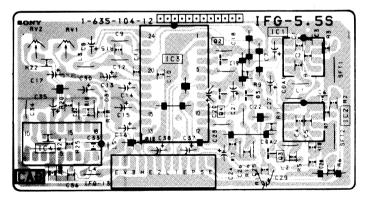


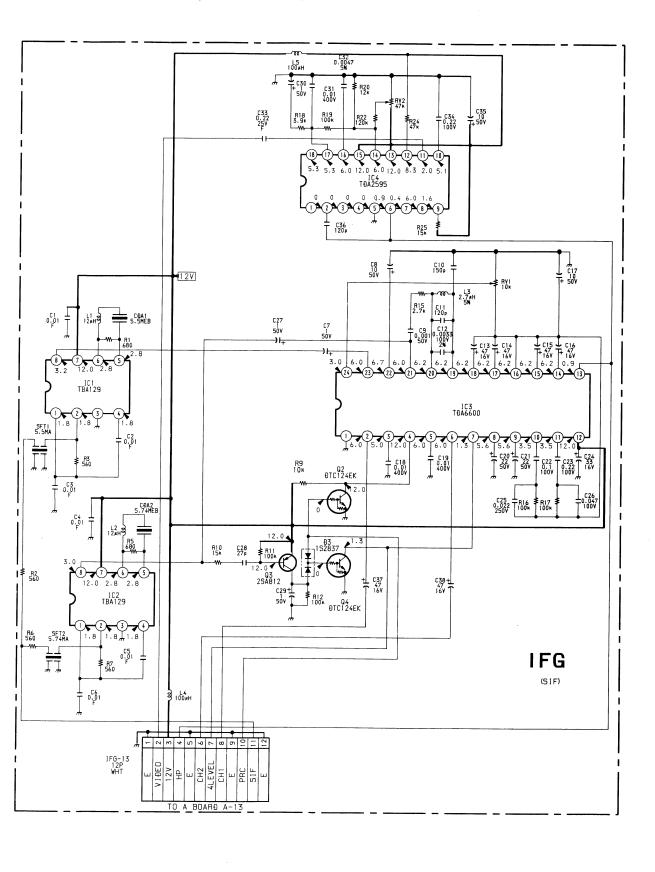


#### -C Board-

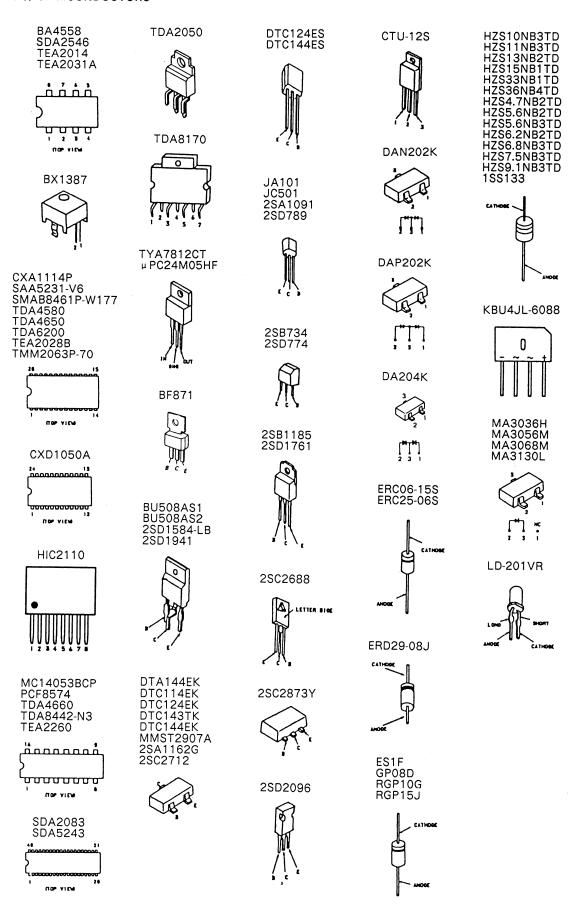


-IFG Board-





#### 5-5. SEMICONDUCTORS



# **SECTION 6 EXPLODED VIEWS**

#### NOTE:

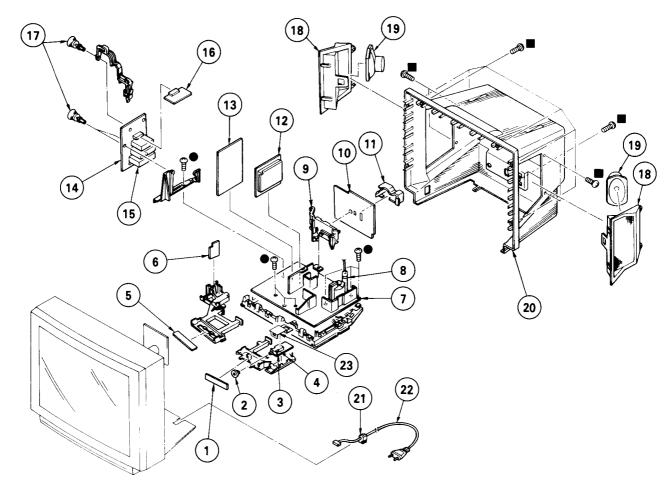
- NOTE:
   Items with no part number and no description are not stocked because they are seldom required for routine service.
   The construction parts of an assembled part are indicated with a collation number in the remark column.
   Items marked " \* are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety. Replace only with part number

specified.

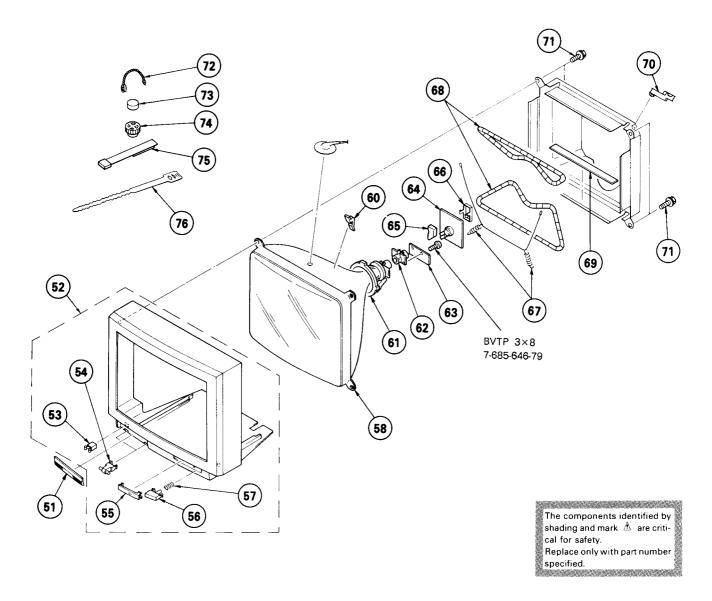
#### (1) CHASSIS

- ●: BVTP 3×12 7-685-648-79
- ■: BVTP 4×16 7-685-663-79



REF.NO. PART NO.	DESCRIPTION REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
5	D BOARD, COMPLETE TRANSFORMER ASSY, FLYBACK (UX-1600) BRACKET, J J1 BOARD, COMPLETE BRACKET, TERMINAL	14 *A-1632-005-A 15 \( \Delta \text{.1-465-301-11} \)	IFG BOARD, COMPLETE RIVET, T TYPE BOARD ASSY, BAFFLE SPEAKER COVER, REAR HOLDER, AC CORD	

### (2) PICTURE TUBE



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO. DESCRIPTION	REMARK
51	CABINET ASSY (WITH BEZEL ASSY) CATCHER, PUSH SHAFT, LID WINDOW, ORNAMENTAL BUTTON, POWER SPRING PICTURE TUBE (A68JYK6OX) SPACER, DY DEFLECTION YOKE (Y29FXA) NECK ASSY, PICTURE TUBE (NA-308) VM BOARD	53-57	65 *4-379-167-01 COVER (MAIN), CV 66 *4-379-160-01 COVER (REAR LID), CV 67 4-369-318-00 SPRING, TENSION 68 \( \Delta\). 1-426-398-11 COIL, DEMAGNETIZATION 69 4-389-291-01 CUSHION 70 *4-387-216-01 HOLDER, LEAD 71 4-373-263-01 SCREW (M), PT 72 4-308-870-00 CLIP, LEAD WIRE 73 1-452-032-00 MAGNET, DISK; 10MM \$\phi\$ 74 1-452-094-00 MAGNET, ROTATABLE DISK; 15 75 X-4387-214-1 PERMALLOY ASSY, CORRECTION 76 3-701-007-00 BAND, BINDING	ИН <i>ф</i>

## **SECTION 7 ELECTRICAL PARTS LIST**



NOTE:

The components identified by shading and mark  $\hat{A}$  are critical for safety.

Replace only with part number specified.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS COILS • MMH : mH, UH : μH • MF : μF, PF : μμF

RESISTORS

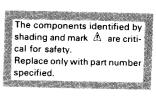
- All resistors are in ohmsF: nonflammable

REF.NO	. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1347-031-A	V BOARD, COM					<dic< td=""><td>DE&gt;</td><td></td><td></td><td></td></dic<>	DE>			
	*4-380-699-01 <cap< td=""><td></td><td></td><td>), A1</td><td></td><td>D01 D02 D03 D04 D07</td><td>8-719-105-91 8-719-106-79 8-719-400-18 8-719-105-52 8-719-106-17</td><td>DIODE RD5.6M- DIODE RD13M-I DIODE MA152WI DIODE RD3.6M- DIODE RD6.8M-</td><td>31 { -B2</td><td></td><td></td></cap<>			), A1		D01 D02 D03 D04 D07	8-719-105-91 8-719-106-79 8-719-400-18 8-719-105-52 8-719-106-17	DIODE RD5.6M- DIODE RD13M-I DIODE MA152WI DIODE RD3.6M- DIODE RD6.8M-	31 { -B2		
C02 C03 C05 C06 C07	1-124-120-11 1-124-119-00 1-126-101-11 1-124-120-11 1-124-791-11	ELECT ELECT ELECT ELECT ELECT	220MF 330MF 100MF 220MF 1MF	20% 20% 20% 20% 20%	16V 16V 16V 16V 50V	D08 D09 D10 D11 D12	8-719-400-18 8-719-400-18 8-719-914-44	DIODE RD6.8M DIODE MA152WI DIODE MA152WI DIODE DAP202I DIODE DAP202I	<b>⟨</b> <b>⟨</b> <b>⟨</b>		
CO8 CO9 C10 C11 C12	1-163-097-00 1-163-141-00 1-163-133-00 1-163-037-11 1-163-127-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 470PF 0.022MF	5% 5% 5% 10% 5%	50 V 50 V 50 V 25 V 50 V	I C1 I C2 I I C3		IC MAB-8461P-			
C13 C14 C15 C16 C17	1-163-117-00 1-163-097-00 1-163-103-00 1-164-232-11 1-163-809-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	15PF 27PF 0.01MF	5% 5% 5% 10% 10%	50V 50V 50V 50V 25V	1 C 4	8-759-230-68 <coi< td=""><td>IC TMM2063P-7 L&gt;</td><td></td><td></td><td></td></coi<>	IC TMM2063P-7 L>			
C18 C19 C20 C21 C24	1-163-099-00 1-163-809-11 1-163-125-00 1-163-833-00 1-126-101-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.047MF 220PF	5% 10% 5% 20%	50V 25V 50V 25V 16V	L01 L04 L05 L06	1-408-411-00 1-408-407-00 1-408-407-00 1-408-407-00	INDUCTOR INDUCTOR INDUCTOR	15UH 6.8UH 6.8UH 6.8UH		
C25	1-124-477-11	ELECT	47MF	20%	16 <b>V</b>			LINK>			
C27 C28 C29 C51	1-163-129-00 1-163-137-00 1-124-927-11 1-163-038-00	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	680PF 4.7MF	5% 5% 20%	50 V 50 V 50 V 25 V	PS01 A PS02 A	. 1-532-679-91 . 1-532-727-91	LINK, IC 0.25	?-N15) O. 5A	6 <b>A</b>	
C52	1-163-038-00	CERAMIC CHIP			25V	0.3		NSISTOR> TRANSISTOR DI	'C114FV		
C53 C54 C55 C56	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.1MF 0.1MF		25V 25V 25V 25V	Q3 Q01 Q02 Q04 Q05	8-729-107-26 8-729-807-50 8-729-271-22	TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29	5D1585-K 5D1623-R 5C2712-G		
C57 C58 C59	1-163-141-00 1-163-141-00 1-163-141-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 0.001MF 0.001MF	5% 5% 5%	50 V 50 V 50 V	Q06 Q07 Q09 Q10	8-729-900-98	TRANSISTOR 2S TRANSISTOR DI TRANSISTOR 2S TRANSISTOR 2S	`C143TK B1295-UL	6	
	<con< td=""><td>INECTOR&gt;</td><td></td><td></td><td></td><td>qii</td><td></td><td>TRANSISTOR 25</td><td></td><td></td><td></td></con<>	INECTOR>				qii		TRANSISTOR 25			
CNVO2	CNVO1 *1-565-393-11 CONNECTOR, BOARD TO BOARD CONVO2 *1-565-393-11 CONNECTOR, BOARD TO BOARD CONVO3 *1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P					JW1	<res< td=""><td>ISTOR&gt;</td><td>0 5</td><td>% 1/10</td><td>יש</td></res<>	ISTOR>	0 5	% 1/10	יש
	ረጥ D ፣	MMER>				JW1   JW2   JW3	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 5	1/10	₩
CTO1		CAP, VAR, TR	IMMER (1 GAN	IG)		JW4 JW5	1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 55 0 55 0 55	% 1/10 % 1/10	ì₩
						JW6	1-216-295-00	METAL GLAZE	0 55	% 1/10	ω



REF.NO	. PART NO.	DESCRIPTION	i			REMARK	REF. NO	. PART NO.	DESCRIPTIO	N -		REMARI
JW7 JW8 JW9 JW10 JW11	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R64 R65 R66 R67 R68	1-216-065-00 1-216-065-00 1-216-057-00 1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 2.2K 2.2K	5% 1/1	OM OM OM
JW12 JW13 JW14 JW15 JW16	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R69	1-216-057-00	METAL GLAZE RIABLE RESIST	OR>		ŎŴ
JW17 JW18 JW19 JW20 JW21	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		X01		YSTAL> OSCILLATOR,	CRYSTAL		
JW22 JW23 JW24 JW25 R01	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0 470	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/2W		X03 *****	i-577-082-ii ***********************************	VIBRATOR, C	ERAMIC ******** MPLETE	*******	*******
R02 R04 R05 R06 R07	1-216-065-00 1-218-326-11 1-216-025-00 1-216-049-00 1-216-025-00	METAL GLAZE	4.7K 470 100 1K 100	5% 5% 5% 5%	1/10W 1/2W 1/10W 1/10W 1/10W			*1-565-393-11 *1-568-878-51 *1-568-881-51	CONNECTOR, I	BOARD TO	BOARD	
RO8 RO9 R13 R14 R15	1-216-037-00 1-216-091-00 1-216-025-00 1-216-025-00 1-216-121-00	METAL GLAZE METAL GLAZE	330 56K 100 100 1M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C301 C302 C303 C304	CAN 1-106-228-00 1-106-228-00 1-124-122-11 1-106-228-00	MYLAR Elect	0.22MF 0.22MF 100MF 0.22MF	10% 10% 20% 10%	100V 100V 50V 100V
R16 R17 R18 R19 R20	1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 1K 4.7K 330 3.9K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C305 C306 C307 C308 C309	1-124-119-00 1-124-902-00	ELECT ELECT ELECT ELECT	330MF 0.47MF 0.47MF 0.47MF 0.47MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 50V
R27 R28 R29 R30 R31	1-216-013-00 1-216-013-00 1-218-325-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33 33 120 120	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/4W		C310 C311 C312 C313 C314	1-106-220-00 1-106-220-00 1-124-902-00 1-124-902-00 1-124-902-00	MYLAR MYLAR ELECT ELECT	0.1MF 0.1MF 0.47MF 0.47MF 0.47MF	10% 10% 20% 20% 20%	100V 100V 50V 50V 50V
R32 R33 R34 R37 R38	1-218-325-11 1-216-023-00 1-216-049-00 1-216-025-00 1-216-047-00	METAL GLAZE METAL GLAZE	120 82 1K 100 820	5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W		C315	1-124-791-11 1-106-220-00 1-124-910-11 1-106-220-00 1-163-121-00	ELECT	1MF 0.1MF 47MF 0.1MF	20% 10% 20% 10%	50V 100V 50V 100V 50V
R40 R41 R43 R44 R45	1-216-041-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 470 4.7K 470 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	 	C322 C323 C327 C330 C331	1-163-121-00 1-102-947-00 1-164-232-11 1-163-113-00 1-106-220-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP MYLAR	150PF 10PF 0.01MF	5% 5% 0.5PF 5%	50 V 50 V 50 V 50 V 100 V
R46 R51 R52 R53 R54	1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8 4.7K 4.7K 4.7K 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C332 C333 C334 C335 C336	1-126-103-11 1-106-375-12 1-163-097-00 1-163-097-00 1-102-816-00	MYLAR CERAMIC CHIP CERAMIC CHIP CERAMIC	470MF 0.022MF 15PF	20% 10% 5% 5%	250V 50V 50V 50V
R55 R56 R57 R58 R59	1-216-065-00 1-216-065-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 4.7K 4.7K 3.3K 6.8K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C337 C338 C339 C341 C343	1-101-004-00 1-106-220-00 1-106-220-00 1-163-125-00 1-106-383-00	CERAMIC  MYLAR  MYLAR  CERAMIC CHIP  MYLAR	0.01MF 0.1MF 0.1MF	10% 10% 5% 10%	50 V 100 V 100 V 50 V 100 V
R60 R61 R62 R63	1-216-083-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	13K 27K 4.7K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C344 C345 C346	1-130-783-00 1-163-123-00		0.33MF 180PF	10%	100V 50V 50V

REF.NO	. PART NO.	DESCRIPTION			REMARK 	REF.NO.	PART NO.	DESCRIPTI	ON 	REMARK
C347 C348 C349 C350 C351	1-124-791-11 1-124-791-11 1-101-004-00 1-164-232-11 1-106-375-12	ELECT CERAMIC CERAMIC CHIP	IMF IMF 0.01MF		50V 50V 50V 50V 250V	1	1-415-613-11 <ic< td=""><td>DELAY LINE</td><td>, Y</td><td></td></ic<>	DELAY LINE	, Y	
C352 C353 C354 C357 C358	1-106-375-12 1-163-063-00 1-124-910-11 1-163-117-00 1-124-917-11	CERAMIC CHIP ELECT CERAMIC CHIP	47MF	10% 10% 20% 5% 20%	250V 50V 50V 50V 50V	I C302 I C303 I C331 I C332		IC TDA8442 IC MC14053 IC TDA4650 IC TDA4660	N3 BCP V2	
C359 C360 C364 C365 C366	1-163-103-00 1-101-004-00 1-163-105-00 1-124-910-11 1-126-103-11	CERAMIC CHIP CERAMIC CERAMIC CHIP BLECT BLECT	0.01MF	5% 5% 20% 20%	50V 50V 50V 50V 16V	L301	1-235-534-11 <001 1-410-868-11	IL>	4.7UH	lE
C367 C381 C382 C384 C385	1-101-004-00 1-124-902-00 1-124-927-11 1-124-910-11 1-124-927-11	CERAMIC ELECT ELECT ELECT ELECT	0.01MF 0.47MF 4.7MF 47MF 4.7MF	20% 20% 20% 20%	50 V 50 V 50 V 50 V 50 V	L302 L331 L336 L338	1-410-868-11 1-404-554-11 1-404-554-11 1-408-409-00 1-408-425-00	COIL COIL INDUCTOR	4.7UH 10UH 220UH	
C386 C387 C388 C401 C402	1-124-927-11 1-130-833-00 1-106-220-00 1-101-361-00 1-163-197-00	BLECT MYLAR MYLAR CERAMIC	4.7MF 0.82MF 0.1MF 150PF	20% 10% 10% 5%	50 V 63 V 100 V 50 V 50 V		1-408-419-00	INDUCTOR	68UH	
C403 C1311 C1312	1-164-232-11 1-163-105-00 1-163-101-00 1-102-953-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 33PF		50 V 50 V 50 V 50 V	Q305 Q306 Q311 Q312	8-729-901-00 8-729-119-78 8-729-271-22 8-729-271-22	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	DTC124EK 2SC2785-HFE 2SC2712-G 2SC2712-G	
CT331 CT332	<tri 1-141-418-11="" 1-141-418-11<="" td=""><td>MMER&gt; CAP, ADJ CAP. ADJ</td><td></td><td></td><td></td><td>Q313 Q316 Q330 Q331 Q332</td><td>8-729-271-22 8-729-271-22 8-729-216-22 8-729-901-00 8-729-216-22</td><td>TRANSISTOR TRANSISTOR TRANSISTOR</td><td>2SC2712-G 2SA1162-G DTC124EK</td><td></td></tri>	MMER> CAP, ADJ CAP. ADJ				Q313 Q316 Q330 Q331 Q332	8-729-271-22 8-729-271-22 8-729-216-22 8-729-901-00 8-729-216-22	TRANSISTOR TRANSISTOR TRANSISTOR	2SC2712-G 2SA1162-G DTC124EK	
	<010					Q333 Q334 Q335 Q336	8-729-216-22 8-729-271-22 8-729-271-22 8-729-900-36	TRANSISTOR TRANSISTOR	2SC2712-G 2SC2712-G	
D301 D302 D303 D304 D305	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119				Q381 Q382 Q1301 Q1305	8-729-901-00 8-729-901-00 8-729-901-00 8-729-901-00 8-729-271-22 8-729-271-22	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	DTC124EK 2SC2712-G DTC124EK 2SC2712-G	
D307 D308 D309 D310	8-719-929-24 8-719-911-19 8-719-911-19 8-719-929-24	DIODE 188119 DIODE 188119				41500		ISTOR>	23C2712-G	
D311 D312 D313 D314 D315	8-719-929-24 8-719-929-24 8-719-911-19 8-719-911-19 8-719-911-19	DIODE HZS11N	33			JR384 R301 R302 R303 R304	1-216-295-00 1-249-409-11 1-249-409-11 1-249-409-11 1-249-409-11	METAL GLAZE CARBON CARBON CARBON CARBON	0 5% 220 5% 220 5% 220 5% 220 5%	1/10W 1/4W 1/4W 1/4W 1/4W
D316 D317 D318 D319	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119				R305 R307 R308 R309 R310	1-216-057-00 1-216-097-00 1-216-184-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 5% 100K 5% 270 5% 100 5% 100 5%	1/10W 1/10W 1/8W 1/10W 1/10W
D320 D331 D332 D333 D350	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-928-94	DIODE 188119	NB3		 	R311 R312 R313 R314 R315	1-216-025-00 1-249-409-11 1-216-081-00 1-216-182-00 1-216-027-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 220 5% 22K 5% 220 5% 120 5%	1/10W 1/4W 1/10W 1/8W 1/10W
DL332	<del.< td=""><td>AY LINE&gt; MODULE, Y DEL</td><td>AY LINE</td><td></td><td>1 1 1 1 1</td><td>R316 R317 R318 R319</td><td>1-216-027-00 1-216-027-00 1-249-429-11 1-249-409-11</td><td>METAL GLAZE METAL GLAZE CARBON CARBON</td><td>120 5% 120 5% 10K 5% 220 5%</td><td>1/10W 1/10W 1/4W 1/4W</td></del.<>	AY LINE> MODULE, Y DEL	AY LINE		1 1 1 1 1	R316 R317 R318 R319	1-216-027-00 1-216-027-00 1-249-429-11 1-249-409-11	METAL GLAZE METAL GLAZE CARBON CARBON	120 5% 120 5% 10K 5% 220 5%	1/10W 1/10W 1/4W 1/4W



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REF.I	NO. PART NO.	DESCRIPTION		REMARK	REF.NO. PART NO. DESCRIPTION REMARK
R320 R321 R322 R323 R324	1-216-057-00 2 1-216-055-00 3 1-249-422-11	METAL GLAZE 1K METAL GLAZE 2.2 METAL GLAZE 1.8 CARBON 2.7 CARBON 10K	1. 5% 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	/8W /10W /10W /4W /4W	R402 1-216-051-00 METAL GLAZE 1.2K 5% 1/10W  R403 1-216-025-00 METAL GLAZE 100 5% 1/10W  R404 1-216-059-00 METAL GLAZE 2.7K 5% 1/10W  R405 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W  R406 1-216-061-00 METAL GLAZE 3.3K 5% 1/10W  R407 1-216-047-00 METAL GLAZE 820 5% 1/10W
R325 R328 R329 R330 R331	1-216-009-00 1-216-009-00 1-216-009-00	METAL GLAZE 22 METAL GLAZE 22 METAL GLAZE 22	5% 1, 5% 1, 5% 1,	/10W /10W /10W /10W /10W	R410 1-216-184-00 METAL GLAZE 270 5% 1/8W R412 1-216-053-00 METAL GLAZE 1.5K 5% 1/10W
R332 R333 R334 R335 R336	1-216-184-00 1-216-121-00 1-216-073-00 1-247-852-11 1-216-061-00	METAL GLAZE IN	5% 1/ 5% 1/ 5% 1/	'8W '10W '10W 4W '10W	R1301 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W R1302 1-216-089-00 METAL GLAZE 47K 5% 1/10W R1303 1-216-089-00 METAL GLAZE 47K 5% 1/10W R1304 1-216-097-00 METAL GLAZE 100K 5% 1/10W R1305 1-216-001-00 METAL GLAZE 10 5% 1/10W
R337 R338 R339 R340 R341	1-216-184-00 1-216-001-00 1-216-033-00 1-216-121-00 1-216-031-00	METAL GLAZE 270 METAL GLAZE 10 METAL GLAZE 220	5% 1/ 5% 1/ 5% 1/ 5% 1/	8W	<variable resistor=""> RV331 1-238-012-11 RES, ADJ, CARBON IK</variable>
R342 R344 R346 R347 R348	1-216-202-00 1-216-073-00	METAL GLAZE 470 METAL GLAZE 47K	5% 1/ 5% 1/	10W 10W 3W 10W	<pre><crystal> X331 1-567-307-11 OSCILLATOR, CRYSTAL X332 1-567-131-00 OSCILLATOR, CRYSTAL ************************************</crystal></pre>
R354 R355 R356 R357 R358	1-216-033-00 1-216-061-00 1-216-069-00 1-216-033-00 1-216-033-00	METAL GLAZE 3 3K	5% 1/1 5% 1/1	0W 0W 0W	*1-633-408-11 F BOARD ******** *1-566-664-11 PIN, CONNECTOR 4P
R359 R360 R361 R362 R363	1-216-089-00 1-216-089-00 1-216-057-00 1-216-065-00 1-216-055-00	METAL GLAZE 47K		OW OW OW	<pre>F1601♠ 1-532-350-11 FUSE, TIME-LAG 4A/250V 1-533-230-11 HOLDER, FUSE; F1601</pre>
R364 R365 R366 R367 R370	1-216-059-00 1-216-033-00			0 W 0 W 0 W	<pre><switch> \$1701\Delta 1-571-433-11 SWITCH, PUSH (AC POWER) ************************************</switch></pre>
R372 R376 R377 R378 R379	1-249-429-11 1-216-049-00 1-216-097-00	METAL GLAZE 82 CARBON 10K METAL GLAZE 1K METAL GLAZE 100K METAL GLAZE 47K	5% 1/10 5% 1/40 5% 1/10 5% 1/10 5% 1/10	DM N DM DM	*A-1632-005-A A BOARD, COMPLETE ***********************************
R380 R381 R382 R383 R384	1-216-093-00   1-216-103-00   1-216-115-00	METAL GLAZE 8.2K METAL GLAZE 68K METAL GLAZE 180K METAL GLAZE 560K METAL GLAZE 150	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	W W	*1-564-886-II PLUG, CONNECTOR 9P *1-565-393-II CONNECTOR, BOARD TO BOARD *1-565-503-II CONNECTOR, BOARD TO BOARD 12P
R385 R386 R387 R388 R389	1-216-061-00 N 1-216-049-00 N 1-216-049-00 N	METAL GLAZE 33K METAL GLAZE 3.3K METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 150K	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	ω ω ω	C101
R390 R391 R392 R393 R394	1-216-023-00 M 1-216-019-00 M 1-216-019-00 M	METAL GLAZE 220 METAL GLAZE 82 METAL GLAZE 56 METAL GLAZE 56 METAL GLAZE 56	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	W (	C109 1-163-133-00 CERAMIC CHIP 470PF 5% 50V C111 1-124-925-11 ELECT 2.2MF 20% 50V C115 1-124-925-11 ELECT 2.2MF 20% 50V C127 1-124-122-11 ELECT 100MF 20% 50V C128 1-124-910-11 ELECT 47MF 20% 50V
R395 R396 R398 R401	1-216-041-00 M 1-216-081-00 M	ETAL GLAZE 4.7K ETAL GLAZE 470 ETAL GLAZE 22K ETAL GLAZE 1.5K	5% 1/8W 5% 1/10V 5% 1/10V 5% 1/10V		1129 1-124-910-11 ELECT 47MF 20% 50V 1138 1-136-165-00 FILM 0.1MF 5% 50V 1171 1-163-005-11 CERAMIC CHIP 470PF 10% 50V 1172 1-163-005-11 CERAMIC CHIP 470PF 10% 50V

TU101A 1-465-301-11 TUNER, ET (UV-816(PLL))



REF. NO	. PART NO.	DESCRIPTIO	N.			REMARK	REF.NO	. PART NO.	DESCRIPTIO	N	i	REMARK
	1 102 074 00	CDDINIC								-		
C177 C181	1-102-074-00 1-101-004-00	CERAMIC	0.001M	Mr G	10%	50V 50V	VIF10	1 1-466-154-21	BLOCK>	FG-389S)		
	<1C>	•					ļ	******			******	******
10103	8-759-979-62	IC PCF8574					! ! !	*A-1638-007-A	C BOARD, CO			
	<c0i< td=""><td>L&gt;</td><td></td><td></td><td></td><td></td><td>1</td><td>1-506-348-99</td><td>PIN, CONNEC</td><td>TOR 3P</td><td>ngu) an</td><td></td></c0i<>	L>					1	1-506-348-99	PIN, CONNEC	TOR 3P	ngu) an	
L100 L101	1-410-116-11 1-408-225-00	INDUCTOR	0.56	HMMH TH			!	*1-508-765-00 *1-568-878-51 *1-568-881-51	PIN. CONNEC	TOR 3P	ICH) 3P	
L102 L107	1-408-413-00	INDUCTOR INDUCTOR	3.30 220 10H	i			i 	*4-379-160-01	COVER (REAR	LID), CV		
	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td><b>*</b>4-379-167-01</td><td>CUVER (MAIN</td><td>), CV</td><td></td><td></td></tra<>	NSISTOR>						<b>*</b> 4-379-167-01	CUVER (MAIN	), CV		
0113	8-729-271-22	TRANSISTOR	2SC2712-	-G			cron		ACITOR>	07000	rω	rou
Q114 Q115 Q116	8-729-271-22 8-729-271-22 8-729-271-22	TRANSISTOR TRANSISTOR TRANSISTOR	2SC2712-	-G			C704	1-102-980-00 1-102-116-00 1-102-978-00	CERAMIC	270PF 680PF 220PF	5% 10% 5%	50 <b>V</b> 50 <b>V</b> 50 <b>V</b>
Q125	8-729-900-89	TRANSISTOR	DTC144ES	5			C706 C707	1-102-116-00 1-162-116-00	CERAMIC	680PF 680PF	10 <b>%</b> 10 <b>%</b>	50 V 2 K V
Q126 Q181	8-729-901-06 8-729-271-22						C708 C709	1-162-114-00 1-102-116-00	CERAMIC CERAMIC	0.0047MF 680PF	10%	2KV 50V
	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td>C710 C711</td><td>1-123-947-00 1-101-880-00</td><td>ELECT CERAMIC</td><td>10MF 47PF</td><td>20% 5% 5%</td><td>250V 50V</td></res<>	ISTOR>					C710 C711	1-123-947-00 1-101-880-00	ELECT CERAMIC	10MF 47PF	20% 5% 5%	250V 50V
JR230	1-216-295-00 1-216-296-00 1-216-296-00	METAL GLAZE	0	5% 5%	1/10W 1/8W		C712 C714	1-102-980-00 1-124-360-00		270PF 1000MF	5% 20%	50V 16V
JR255	1-216-296-00	METAL GLAZE	0	5% 5% 5% 5%	1/8W 1/8W		C716 C717	1-162-622-11 1-102-114-00	CERAMIC CERAMIC	330PF 470PF	10% 10%	400V 50V
JR256 JR257	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W		C718 C719	1-102-114-00 1-102-114-00	CERAMIC	470PF 470PF	10% 10%	50 V 50 V
JR258 R101	1-216-296-00 1-216-025-00	METAL GLAZE	100	5% 5%	1/8W 1/10W			<dio></dio>	DE>			
R105 R107 R108	1-216-079-00 1-216-081-00 1-216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE	18K 22K 18K	5% 5% 5% 5%	1/10W 1/10W 1/10W		D701 D702	8-719-929-16 8-719-911-19	DIODE HZS9.1	LNB3		
R110	1-249-429-11	CARBON			1/4W		D703 D704	8-719-911-19 8-719-911-19 8-719-911-19	DIODE ISSIIS	}		
R111 R116 R118	1-216-061-00 1-216-023-00 1-216-085-00	METAL GLAZE	82	5% 5% 5%	1/10W 1/10W 1/10W		D705 D706		DIODE 188119			
R128	1-216-027-00	METAL GLAZE	120	5%	1/10W		D707 D708	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119	)		
R129 R130 R157	1-216-057-00 1-216-057-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 2.2K 1K	5% 5% 5%	1/10W 1/10W 1/10W		D709 D710	8-719-911-19 8-719-911-19	DIODE 188119			
R158 R159	1-249-409-11 1-249-409-11	CARBON CARBON	220 220	5% 5% 5%	1/4W 1/4W		D711 D713	8-719-300-33 8-719-911-19	DIODE RU-3AM DIODE 1SS119			
R161 R162	1-216-089-00 1-216-095-00	METAL GLAZE METAL GLAZE	47K 82K	5% 5%	1/10W 1/10W	į		<jac< td=""><td>K&gt;</td><td></td><td></td><td></td></jac<>	K>			
R163 R164	1-216-095-00 1-216-075-00	METAL GLAZE METAL GLAZE	82K 12K	5%%%%% 5%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%	1/IOW 1/10W		J701	1-526-990-11	SOCKET, PICT	URE TUBE		
R165 R167	1-216-075-00 1-216-059-00	METAL GLAZE	12K 2.7K	5%	1/10W 1/10W			<0011	L>			
R168 R169	I-216-089-00 1-216-059-00	METAL GLAZE METAL GLAZE	47K 2.7K	5% 5%	1/10W 1/10W		L704	1-410-878-11	INDUCTOR	33UH		
R181 R182	1-216-049-00 1-216-065-00	METAL GLAZE METAL GLAZE	1K 4.7K	5% 5%	1/10W 1/10W			<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td></tra<>	NSISTOR>			
R193 R194	1-216-073-00 1-216-017-00	METAL GLAZE	10K 47	5% 5%	1/10W 1/10W		Q702	8-729-119-78	TRANSISTOR 2	SC2785-HFE		
R195 R196	1-216-017-00 1-216-113-00		47 470K	5% 5%	1/10W 1/10W		Q703 Q704 Q705	8-729-200-17	TRANSISTOR B TRANSISTOR 25 TRANSISTOR 25	SA1091-0		
	<tun< td=""><td>ER&gt;</td><td></td><td></td><td></td><td>; ;</td><td><b>Q</b>706</td><td></td><td>TRANSISTOR B</td><td></td><td></td><td></td></tun<>	ER>				; ;	<b>Q</b> 706		TRANSISTOR B			
W1110 * A						į						



		DESCRIPTION	I				REMARK	REF.NO	D. PART NO.	DESCRIPT	101		REMARK
Q707 8 Q708 8 Q709 8 Q710 8	-729-200-17 -729-119-78 -729-906-70 -729-200-17	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 8 TRANSISTOR 2	SA1091 SC2785 F871 SA1091	-0 -HFE -0					*4-341-751- *4-341-752- *4-368-683-	O1 EYELET DI EYELET DI SPRING			
	<res< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td>7000</td><td>&lt;</td><td>CAPACITOR&gt;</td><td></td><td></td><td></td></res<>	SISTOR>						7000	<	CAPACITOR>			
R704 1- R705 1- R706 1- R707 1- R708 1-	-216-486-00 -202-824-00 -249-409-11 -249-412-11 -249-401-11	METAL OXIDE SOLID CARBON CARBON CARBON	8.2K 3.3K 220 390 47	5% 10% 5% 5%	3W 1/2W 1/4W 1/4W 1/4W	F		C002 C003 C004 C005 C006	1-163-009-1 1-123-875-1 1-124-120-1 1-124-791-1 1-163-125-0	CERAMIC CI ELECT ELECT ELECT CERAMIC CI	HIP 0.001MF 10MF 220MF 1MF HIP 220PF	10% 20% 20% 20% 5%	50V 50V 16V 50V 50V
R709 1- R710 1- R711 1- R712 1- R713 1-	-202-844-00 -215-465-00 -249-426-11 -249-417-11 -215-471-00	METAL OXIDE SOLID CARBON CARBON CARBON SOLID METAL CARBON CARBON METAL CARBON METAL	330K 68K 5.6K 1K 120K	10% 1% 5% 5% 1%	1/2W 1/6W 1/4W 1/4W 1/6W			C007 C008 C009 C010 C011	1-163-125-0 1-163-109-0 1-163-109-0 1-124-120-1 1-164-232-1	O CERAMIC CH O CERAMIC CH O CERAMIC CH I ELECT I CERAMIC CH	HIP 220PF HIP 47PF IIP 47PF 220MF IIP 0.01MF	5% 5% 5% 20%	50V 50V 50V 16V 50V
R714 1- R715 1- R716 1- R717 1-	216-486-00 202-824-00 249-409-11 249-415-11	METAL OXIDE SOLID CARBON CARBON	8.2K 3.3K 220 680	5% 10% 5% 10%	3W 1/2W 1/4W 1/4W 1/2W	F		C012 C013 C014 C015 C016	1-123-875-1 1-106-220-0 1-106-220-0 1-124-902-0 1-163-121-0	1 ELECT O MYLAR O MYLAR O ELECT O CERAMIC CH	10MF 0.1MF 0.1MF 0.47MF IP 150PF	20% 10% 10% 20% 5%	50V 100V 100V 50V 50V
R721 1- R722 1-	249-401-11 249-423-11 202-842-11 202-848-00 249-417-11	CARBON CARBON SOLID SOLID CARBON	47 3.3K 220K 680K 1K	5% 5% 10% 10% 5%	1/4W 1/4W 1/2W 1/2W 1/4W			C017 C018 C019 C020 C021	1-106-220-0 1-163-127-0 1-106-383-0 1-124-917-1 1-163-117-0	O MYLAR O CERAMIC CH O MYLAR I ELECT O CERAMIC CH	0.1MF IP 270PF 0.047MF 33MF IP 100PF	10% 5% 10% 20% 5%	100V 50V 100V 50V 50V
R725 1-1 R726 1-1 R727 1-1	202-838-00 202-824-00 249-409-11	SOLID SOLID SOLID	470K 100K 3.3K 220 0.68	10% 10% 10% 5%	1/2W 1/2W 1/2W 1/4W 1W	F		C022 C023 C024 C025 C027	1-164-232-11 1-163-117-00 1-163-117-00 1-163-117-00 1-124-910-11	CERAMIC CH CERAMIC CH CERAMIC CH CERAMIC CH ELECT	IP 0.01MF IP 100PF IP 100PF IP 100PF 47MF	5% 5% 5% 20%	50 V 50 V 50 V 50 V 50 V
R731 1-2 R732 1-2	249-416-11 249-401-11 249-423-11 249-415-11 249-415-11	CARBON CARBON	820 47 3.3K 680 680		1/4W 1/4W 1/4W 1/4W 1/4W			C029 C030 C031 C032 C251	I-163-081-00 I-163-081-00 I-163-081-00 I-163-081-00 I-124-791-11	CERAMIC CH CERAMIC CH CERAMIC CH CERAMIC CH ELECT			25V 25V 25V 25V 50V
R734 1-2 R735 1-2 R736 1-2 R737 1-2 R739 1-2	249-405-11 215-493-00 216-486-00 215-485-00 249-417-11	CARBON METAL METAL OXIDE METAL CARBON	100 1 <b>M</b> 8.2K 470K 1K	5% 1% 5% 1% 5%	1/4W 1/6W 3W 1/6W 1/4W	F		C253 C254 C255 C261	1-106-220-00 1-124-636-00 1-124-791-11	ELECT	P 0.001MF 0.1MF 3300MF 1MF	10% 20% 20%	50V 50V 100V 25V 50V
		ABLE RESISTOR:					1 1 1	C262 C263 C264	1-126-233-11 1-163-009-11 1-106-220-00	ELECT CERAMIC CHI MYLAR	22MF P 0.001MF 0.1MF	20% 10% 10%	50V 50V 100V
KV7U2ALI-2	30-619-11	RES, ADJ, META	M. GLAZ	F 1101	i 1			C265 C501	1-124-564-11 1-124-927-11	ELECT	4700MF 4.7MF	20% 20%	25V 50V
RV703 1-2 RV704 1-2	37-749-11 37-749-11 ********	RES, ADJ, CARE RES, ADJ, CARE ************************************	BON 220 BON 220	0		***	****	C504 C505	1-124-927-11 1-106-371-00 1-163-121-00 1-108-794-11 1-106-375-12	CERAMIC CHI MYLAR	4.7MF 0.015MF P 150PF 0.0015MF 0.022MF	20% 10% 5% 5% 10%	50 V 400 V 50 V 50 V 250 V
	1	**********	***	) I m CII \	20		1	C508	1-130-783-00 1-106-375-12		0.33MF 0.022MF	10% 10%	100V 250V
*1-5 *1-5 *1-5	08-786-00 F 60-290-00 F 65-394-11 F	PIN, CONNECTOR PIN, CONNECTOR PLUG, CONNECTO PIN, BOARD TO	(5MM F R (2.5) BOARD (	PITCH) MM PIT CONNEC	2P CH) TOR			C510	1-106-220-00 1-161-959-00 1-108-620-11	MYLAR CERAMIC MYLAR	0.1MF 22PF 0.0033MF	10% 10% 10%	100V 500V 100V
1-56 *1-56	66-367-11 ( 68-106-11 F 68-536-11 F	CONNECTOR, HIN PIN, CONNECTOR PLUG (MINIATUR	GE (REC 4P E DY) 6	EPTAC				C513 C514	1-106-220-00 1-163-125-00 1-106-228-00 1-124-791-11	MYLAR CERAMIC CHIF MYLAR ELECT	0.1MF 220PF 0.22MF 1MF	10% 5% 10% 20%	100V 50V 100V 50V
* I -5ı	68-878-51 F 68-881-51 F	PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR	3P 6P					C516	1-108-614-11	MYLAR ELECT	0.001MF 0.33MF	10%	100V 50V
		HOLDER, IC	••					C518	1-124-232-00 1-124-902-00 1-136-171-00	ELECT	0.33MF 0.33MF	20% 20% 5%	50 <b>V</b> 50 <b>V</b> 50 <b>V</b>



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C521 1-106-220-00 C522 1-124-122-11 C523 1-108-614-11 C524 1-108-798-11	ELECT 16 MYLAR 0. MYLAR 0.	.1MF	( 100V ( 50V ( 100V 50V	i	1-163-005-11 1-106-359-00 1-102-212-00 1-106-375-12 1-136-518-11 1-136-519-11				50V 400V 500V 250V 300V
	CERAMIC CHIP 10 CERAMIC CHIP 22 MYLAR 0. ELECT 68 ELECT 10		50V 50V 100V 25V 50V	,	\$\frac{1}{1}-\frac{1}{3}6-\frac{1}{9}-\frac{1}{1}\$\$\$\left\{ \text{1-162-578-51} \\ \text{1-162-578-51} \\ \text{1-162-578-51} \\ \text{1-162-578-51} \\ \text{1-161-964-61}\$\$\$\$\$\$\$\$\$\$		0.47MF 0.0047MF 0.0047MF 0.0047MF 0.0047MF	20%	300V::
	MYLAR 0. ELECT 22 TANTALUM 10 ELECT 11 MYLAR 0.		16V 16V 50V 100V			TER>	0.0047KF	20%	250V
C539 1-163-129-00 C540 1-163-009-11 C592 1-124-122-11 C593 1-163-129-00 C601 $\triangle$ .1-161-964-61	CERAMIC U.	.UU4/Mr	50V 50V 50V 50V 250V	CF501	I-567-888-11 <dio< td=""><td>OSCILLATOR,</td><td>CERAMIC</td><td></td><td></td></dio<>	OSCILLATOR,	CERAMIC		
C602	ELECT(BLOCK) 22 ELECT 22 CERAMIC CHIP 68	20MF 20% 20MF 20% 80PF 5%	250V 250V 400V 35V 50V	D004 D005	8-719-109-89	DIODE RD5.6E	S-B2		
C607 1-130-834-00 C608 1-124-927-11 C611 1-124-910-11 C612 1-108-614-11 C613 1-136-539-11	MYLAR 1N ELECT 4. ELECT 47 MYLAR 0. FILM 0.	MF 10% .7MF 20% 7MF 20% .001MF 10% .0022MF 3%	63V 50V 50V 100V 2KV	D006 D007 D009 D010 D011 D013	8-719-911-19 8-719-109-89 8-719-120-78 8-719-120-78	DIODE HZS33NI DIODE 1SS119 DIODE RD5.6E DIODE RD6.2E DIODE RD6.2E DIODE RD5.6E	S-B2 S-L3 S-L3		
C614 1-102-030-00 C615 1-124-557-11 C616 1-102-030-00 C617 1-124-122-11 C618 1-162-115-00	CERAMIC 33 ELECT 10 CERAMIC 33 ELECT 10 CERAMIC 33	30PF 10% 000MF 20% 30PF 10% 00MF 20% 30PF 10%	25V 500V	D271 D272 D501 D504 D506	8-719-110-36 8-719-911-19 8-719-911-19 8-719-911-55 8-719-800-76	DIODE 155119	-В2		
C619 I-124-556-11 C620 I-136-173-00 C621 I-124-347-00 C622 I-124-556-11 C623 I-124-910-11	ELECT 22	200MF 20% .47MF 5% 00MF 20% 200MF 20% 7MF 20%	16V 50V 160V 16V 50V	D508 D509 D511 D512 D513	8-719-911-19 8-719-911-19 8-719-911-55 8-719-911-55 8-719-928-85	DIODE 1SS119 DIODE UOSG	<b>₩</b> B2		
C624 1-124-122-11 C625 1-124-360-00 C626 1-123-875-11 C627 1-163-009-11 C631 1-124-927-11	CERAMIC CHIP O.	00MF 20% 000MF 20% 0MF 20% .001MF 10% .7MF 20%	16V 50V	D514 D515 D601 A. D602 D603	8-719-911-19 8-719-911-19 .8-719-946-90 8-719-300-33 8-719-911-55	DIODE ISS119 DIODE ISS119 DIODE KBU4JL- DIODE RU-3AM DIODE UO5G	-6088		
C632 1-163-009-11 C633 1-163-117-00 C801 1-126-105-11 C802 1-102-030-00 C804 1-123-948-00	CERAMIC 33		50V 50V 35V 500V 250V	D604 D605 D606 D607 D608	8-719-911-55 8-719-911-55 8-719-300-33 8-719-300-33 8-719-300-33	DIODE UO5G DIODE UO5G DIODE RU-3AM DIODE RU-3AM DIODE RU-3AM			
C805 1-162-114-00 C806 1-106-220-00 C807 1-106-395-00 C810 1-123-024-21 C811 1-136-113-00	MYLAR O. MYLAR O.	.0047MF .1MF 10% .15MF 10% BMF MF 5%	2KV 100V 200V 160V 200V	D609 D610 D611 D612 D613	8-719-929-71 8-719-300-59 8-719-900-26 8-719-300-59 8-719-979-85	DIODE HZS33NB DIODE CTU-12S DIODE ERD29-0 DIODE CTU-12S DIODE EGP20G	8J		
C812 1-124-634-11 C813 1-102-212-00 C814 A. 1-161-731-11 C815 1-136-540-11 C817 1-136-591-11	CERAMIC O. FILM O.	MF 20% 20PF 10% .001MF 10% .82MF 5% .017MF 3%	250V 500V 2KV 200V 1.4KV	D614 D616 D617 D618 D619	8-719-979-85 8-719-120-78 8-719-911-19 8-719-109-89 8-719-929-71	DIODE EGP20G DIODE RD6.2ES DIODE 1SS119 DIODE RD5.6ES DIODE HZS33NB	-B2		
C818 1-136-759-11 C819 A. 1-161-731-11 C820 1-106-218-00 C821 A. 1-162-134-51	CERAMIC O. MYLAR O.	.039MF 10% .001MF 10% .0082MF 10% 70PF 10%	630V 2KV 400V 2KV	D623	8-719-800-76 8-719-929-71 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS226 DIODE HZS33NB DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	1		

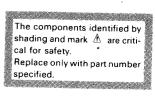
REMARK



REF.NO. PART NO. DESCRIPTION	REMARK	REF. N	O. PART NO.	DESCRIPT	(ON	F
D630 8-719-110-39 DIODE RD15ES-B1 D801 8-719-300-33 DIODE RU-3AM D802 8-719-300-33 DIODE RU-3AM D803 8-719-300-65 DIODE ESIF		Q001	8-729-901-0	TRANSISTOR>	DTC144Ek	<b>{</b>
D805 8-719-911-55 DIODE U05G D806 8-719-945-80 DIODE ERC06-15S D807 8-719-945-80 DIODE ERC06-15S		Q003 Q004 Q005	8-729-901-0 8-729-216-2 8-729-216-2 8-729-901-0	TRANSISTOR TRANSISTOR TRANSISTOR	2SA1162- 2SA1162- 2SA1162- DTC144EK	( -G -G
<1C>		0007 0008 0009	8-729-901-0 8-729-271-2 8-729-271-2 8-729-271-2	1 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR	DTC144EK 2SC2712- 2SC2712- 2SC2712-	G G
ICO01 8-759-501-66 IC SDA2083-B012 ICO02 8-752-332-82 IC CXD1050A-09P ICO03 8-759-945-58 IC RC4558P ICO05 8-759-748-56 IC SDA2546 IC251 8-759-988-94 IC TDA2050		Q261 Q271 Q502 Q505 Q506	8-729-271-2 8-729-271-2 8-729-216-2: 8-729-140-9:	2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 5 TRANSISTOR 6 TRANSISTOR 7 TRANSISTOR	2SC2712-1 2SC2712-1 2SC2712-1 2SA1162-1 2SD774-3	G G G
4-201-023-01 SPACER, INSULATING; IC251 4-812-134-00 RIVET NYLON, 3.5; IC251 IC261 8-759-988-94 IC TDA2050 4-201-023-01 SPACER, INSULATING; IC261 4-812-134-00 RIVET NYLON, 3.5; IC261		Q507 Q598 Q601 Q602 Q603	8-729-216-22 8-729-216-22 8-729-111-63 8-729-209-02 8-729-111-63	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SA1162-0 2SA1162-0 2SB1094-L 2SD1548-L	i i j B
DESCRIPTION		Q604 Q605 Q606 Q607 Q608	8-729-216-22 8-729-271-22 8-729-271-22 8-729-920-92 8-729-271-22	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SA1162-G 2SC2712-G 2SC2712-G 2SC2712-G 2SD2096-E 2SC2712-G	, i
<coil></coil>		Q609 Q801	8-729-320-62 8-729-271-22	TRANSISTOR TRANSISTOR	2SD789-34 2SC2712-G	
L001 I-408-414-00 INDUCTOR 27UH L501 I-408-225-00 INDUCTOR 3.3UH L601 *I-420-872-00 COIL, AIR CORE L602 I-410-396-41 FERRITE BEAD INDUCTOR	 	Q804 Q805	8-729-304-50 8-729-119-80	TRANSISTOR TRANSISTOR	2SD1941-0 2SC2688-L	6 K
L604 1-410-671-31 INDUCTOR 471H		JR1	<re: 1-216-295-00</re: 	SISTUR>	0 '	5 <b>%</b> 1/100.
COIL>  COIL>  COIL>  COIL>  COIL>  COIL>  COIL>  COIL>  COIL>  COIL>  COIL>  COIL>  COIL>  COIL>  COIL>  COIL>  COIL>  COIL>  COIL   1-408-414-00   INDUCTOR   27UH   3.3UH	R001 R002 R003 R004	1-216-041-00 1-216-041-00 1-249-417-11 1-216-049-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE	470 470 1K	5% 1/10W 5% 1/10W 5% 1/4W 5% 1/4W	
L803 1-459-104-00 COIL, DUST CORE L804 1-408-239-00 INDUCTOR 4.7MMH L805 1-459-907-22 COIL, HORIZONTAL LINEARITY		R005 R006	1-249-417-11 1-216-073-00	CARBON METAL GLAZE	1K 5	5% Î/4W" 5% 1/10W
L806			1-216-065-00 1-216-073-00 1-216-073-00 1-216-041-00		101 3	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W
<pre><transformer> LF1601A I-421-866-12 LFT LF1602A I-421-876-11 LFT LF1602A I-421-876-11 LFT</transformer></pre>		R013 R014 R015	1-216-065-00 1-216-073-00 1-216-071-00 1-216-061-00 1-216-085-00	METAL GLAZE METAL GLAZE	4.7K 5 10K 5 8.2K 5 3.3K 5 33K 5	% 1/10W
LP1603A 1-421-592-21 TRANSFORMER, FERRITE T601 A 1-450-037-11 S.R.T T602 A 1-424-277-11 TRANSFORMER, TRIGGER PULSE T801 A 1-437-090-21 HDT T802 A 1-439-416-11 TRANSFORMER ASSY, FLYBACK (UX-		RO18 RO19 RO20	1-216-748-11 1-216-095-00 1-216-049-00 1-216-049-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	39K 5; 82K 5; IK 5; IK 5; 4.7K 5;	% 1/10W % 1/10W % 1/10W
<pre></pre>		R023 R024 R025		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	4.7K 5% 270 5% 1K 5% 100 5%	% 1/10W % 1/10W % 1/10W % 1/10W
LINK, IC (ICP-N15) 0.6A		R028 R029   R030	I-216-025-00 I-216-073-00 I-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 100 5% 10K 5% 10K 5% 22K 5%	/ 1/10W / 1/10W / 1/10W / 1/10W / 1/10W
	ļ		1-216-073-00		10K 5%	



REF.NO. PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R036 1-216-079-00 R037 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 15K 22K 18K 5.6K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R271 R272 R273 R500 R501	1-216-073-00 1-216-073-00 1-216-115-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 10K 10K 560K 470	5 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R039 1-216-081-00 R040 1-216-077-00 R041 1-216-073-00 R042 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 22K 15K 10K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R502	1-216-033-00 1-216-035-00 1-249-420-11 1-216-077-00 1-216-071-00 1-216-063-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE	220 270 1.8K 15K 8.2K 3.9K	5% 5% 5%	1/10W 1/10W 1/4W 1/10W 1/10W 1/10W	
R045 1-216-061-00 R046 1-216-085-00 R047 1-216-073-00 R048 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 100K 3.3K 33K 10K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		R510 R514 R515 R517 R517	I-216-067-00 I-216-033-00 I-216-061-00 I-216-073-00 I-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 220 3.3K 10K 47K		1/10W 1/10W 1/10W 1/10W 1/10W	
R049 1-216-073-00 R050 1-216-067-00 R051 1-216-041-00 R052 1-216-049-00 R053 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5.6K 470 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W		R519 R520 R521 R522 R523	1-216-081-00 1-216-037-00 1-216-025-00 1-215-469-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL METAL GLAZE	22K 330 100 100K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/6W 1/10W	
R055	METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 330 100 220	5% 5%	1/10W 1/10W 1/10W 1/10W		R529	1-216-057-00 1-249-409-11 1-216-077-00 1-216-031-00 1-216-069-00	CARBON	2.2K 220 15K 180 6.8K	5% 5%	1/10W 1/4W F 1/10W 1/10W 1/10W	7
R060 1-216-049-00 R061 1-249-417-11 R062 1-249-417-11 R063 1-249-429-11		1 K 1 K		1/4W 1/10W 1/4W 1/4W 1/4W		R530 R531 R532 R533 R534	1-249-448-11 1-216-099-00 1-216-049-00 1-216-295-00 1-216-119-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.2 120K 1K 0 820K	5% 5%	1/4W F 1/10W 1/10W 1/10W 1/10W	î
R064 1-249-417-11 R065 1-249-429-11 R066 1-216-049-00 R067 1-216-049-00	CARBON CARBON METAL GLAZE METAL GLAZE	IK	5% 5% 5%	1/4W 1/4W 1/10W 1/10W		R535 R536 R537 R538	1-249-749-00 1-216-129-00 1-216-083-00 1-216-101-00 1-216-101-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE	2.2M 2.2M 27K 150K 150K	5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W	
R069 1-249-417-11 R070 1-249-417-11 R071 1-249-417-11 R072 1-249-417-11		1K 1K 1K 1K 1K		1/4W 1/4W 1/4W 1/4W		R540 R541 R542	1-216-013-00 1-216-091-00 1-216-308-00 1-249-451-11 1-247-745-11	METAL GLAZE METAL GLAZE METAL GLAZE	33 56K 4.7		1/10W 1/10W 1/10W 1/10W 1/4W 1/2W	
R073 1-216-049-00 R074 1-216-065-00 R075 1-216-033-00 R076 1-216-049-00 R077 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R545 R546 R547 R548	1-216-081-00 1-216-083-00 1-216-061-00 1-216-349-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	22K 27K 3.3K		1/10W 1/10W 1/10W 1/10W 1W F	
R078 1-216-049-00 R251 1-216-065-00 R252 1-216-039-00 R253 1-216-073-00 R254 1-216-357-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	1K 4.7K 390 10K 4.7	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	<b>`</b>	R549 R550 R551 R553 R554	1-216-454-11 1-216-095-00 1-216-129-00 1-216-869-11 1-216-037-00	METAL OXIDE METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	390 82K 2.2M 1K 330	5% 5% 5% 5% 5%	1/10W 1/10W 1W 1/10W	
R255 1-216-073-00 R256 1-216-115-00 R257 1-216-077-00 R258 1-215-869-11 R259 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	10K 560K 15K 1K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1W F 1/10W	,	R555 R556 R557 R558 R559	1-216-129-00 1-216-025-00 1-216-065-00 1-216-113-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2M 100 4.7K 470K 6.8K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R261 1-216-065-00 R262 1-216-039-00 R263 1-216-073-00 R264 1-216-357-00 R265 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	4.7K 390 10K 4.7 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1W F 1/10W	,	R560 R561 R570 R591	1-216-037-00 1-216-107-00 1-216-045-00 1-216-047-00 1-216-049-00	METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE	330 270K 680 820 1K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R266 1-216-115-00 R267 1-216-077-00 R268 1-215-869-11 R269 1-216-065-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	560K 15K 1K 4.7K	5% 5% 5%	1/10W 1/10W 1W F 1/10W		R593 R594	1-216-053-00 1-216-071-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 8.2K 470	5% 5% 5%	1/10W 1/10W 1/10W	





REF.N	O. PART NO.	DESCRIPTIO	ON 			REMARK	REF.N	IO. PART NO.	DESCRIP'	TION			REMARK
R598 R600 R601 R603 R604	1-215-900-1 1-249-381-1 1-216-353-0 1-216-469-1 1-216-025-0	1 CARBON O METAL OXIDE 1 METAL OXIDE	1 2.2 12	5% 5% 5% 5%	2W F 1/4W 1W F 3W F 1/10W		-: KY50	1 1-238-013-1 2 1-238-016-1 1 1-238-011-1	I RES ADJ	CARBON CARBON	10K		
R605 R606 R607 R608 R609	1-216-081-0 1-216-051-0 1-216-067-0 4.1-216-488-5 1-216-007-0	O METAL GLAZE O METAL GLAZE I METAL OXIDE O METAL GLAZE	1.2K 5.6K 18K	5% 5% 5% 5%	1/10W 1/10W 1/10W 3W F 1/10W	ě	SG80	<s 1 1-519-422-1</s 	PARK GAP> 1 GAP, SPAR	K			
R610 R611 R612 R613 R614	1-244-941-0 1-216-015-0 1-216-049-0 1-216-097-0 1-205-758-1	D METAL GLAZE D METAL GLAZE D METAL GLAZE	1 K	5% 5%	1/2W 1/10W 1/10W 1/10W 1/10W F		i	<t -1-808-059 </t 				*****	******
R616 R617 R618 R619 R620	1-216-099-00 1-216-037-00 1-216-431-11 1-216-073-00 1-216-081-00	) METAL GLAZE   METAL OXIDE   METAL GLAZE	120K 330 560 10K 22K	5% 5% 5% 5%	1/10W 1/10W 1W F 1/10W 1/10W			*1-634-193-1 *1-568-878-5	******	ECTOR 3P			
R621 R622 R623 R624 R625	1-216-077-00 1-216-073-00 1-216-081-00 1-216-067-00 1-215-865-11	METAL GLAZE METAL GLAZE METAL GLAZE	15K 10K 22K 5.6K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W IW F		C751 C752 C753 C754	<07 1-101-361-00 1-108-629-11 1-106-367-00 1-102-980-00	MYLAR MYLAR	150PF 0.018 0.01M 270PF	MF IF	5% 10% 10%	50V 100V 400V
R626 R628 R629 R633 R634	1-216-049-00 1-216-430-11	METAL GLAZĒ METAL GLAZE METAL GLAZE METAL OXIDE	330 10 330 1K 390	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W F	,	C757 C759 C760 C761 C762	1-108-692-11 1-123-875-11 1-124-917-11 1-101-006-00 1-106-367-00	MYLAR ELECT ELECT CERAMIC	10MF 33MF 0.01M	if Mf	5% 10% 20% 20%	50 V 200 V 50 V 50 V 50 V
R635 R636 R643 R651 R653	1-216-073-00 1-216-073-00 1-217-189-21 1-216-025-00 1-205-758-11	WIREWOUND METAL GLAZE	10K 10K 0.12 100 100	5% 5% 5% 10%	1/10W 1/10W 2W F 1/10W 10W F		L751 L770	<00 1-408-413-00 1-410-665-31	IL>	22U 15U	Н	10%	400V
R802 R805 R806 R807 R809	1-249-443-11 1-249-448-11 1-216-093-00 1-215-869-11 1-202-821-11	CARBON METAL GLAZE METAL OXIDE	0.47 1.2 68K 1K 1.8K	5% 5% 5% 5% 10%	1/4W F 1/4W F 1/10W 1W F 1/2W		Q751 Q752		ANSISTOR> TRANSISTOR	2SC2785-	-HFE		
R810 R811 R812 R815 R816	I-202-818-00 I-215-882-00 I-244-916-11 I-215-884-11 I-215-868-00	METAL OXIDE CARBON METAL OXIDE	1 K 22 62 K 47 680	10% 5% 5% 5%	1/2W 2W F 1/2W 2W F 1W F		Q753 Q754	8-729-140-97 8-729-140-96		2SB734~3	34		
.R825	1-216-049-00 1-249-403-11 1-247-725-11 1-217-778-61 1-216-345-11	METAL GLAZE CARBON CARBON FUSIBLE METAL OXIDE	1K 68 10K 1 <b>K</b> 0.47	5% 5% 5% 5%	1/10W 1/4W 1/4W F 1W F 1W F		R751 R752 R753 R754 R755	1-249-418-11 1-249-426-11 1-249-414-11 1-249-434-11 1-249-405-11	CARBON CARBON CARBON CARBON CARBON	1.2K 5.6K 560 27K 100	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R826 R827 R828 R829 R831	1-216-097-00 1-216-073-00 1-216-059-00 1-216-051-00 1-249-451-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	10K 2.7K 1.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W		R756 R757 R758 R760 R761	1-249-419-11 1-249-405-11 1-249-409-11 1-249-411-11 1-249-429-11	CARBON CARBON CARBON CARBON CARBON	1.5K 100 220 330 10K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1603A R1604A R1605A	1-246-513-75 1-244-945-91 1-217-328-11 1-246-513-75 1-218-265-91	CARBON CARBON WIREWOUND CARBON METAL GLAZE	1M 2.7 47K	5% 10% 5%	1/4W 1/2W 7W F 1/4W 1W		R762 R763 R764 R765 R766	1-247-895-00 1-249-429-11 1-249-455-11 1-249-455-11 1-247-753-11	CARBON CARBON CARBON CARBON CARBON	470K 10K 4.7 4.7 1.2K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/2W	F F
R5504	1-216-073-00 1-216-001-00 1-216-121-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10 1M 10	5% 5%	1/10W 1/10W 1/10W 1/10W		R767 R768	1-247-751-11 1-215-887-00	CARBON METAL OXIDE	820 150	5% 5%	1/2W 2W	F

The components identified by shading and mark  $\triangle$  are critical for safety.
Replace only with part number specified.

VM H1 H2 J2 J1

**1-633-409-11 BLOAD  **1-633-409-12 BLOAD  **1-633-409-12 BLOAD  **1-633-409-13 BLOAD  **1-633-409-13 BLOAD  **1-633-409-13 BLOAD  **1-633-409-13 BLOAD  **1-63-12-12 PULL COMMECTOR 69  **1-56-12-12 PULL COMMECTOR 69  **1-53-410-11 PULL COMMECTOR 69  **1-53-410-11 PULL COMMECTOR 69  **1-53-410-11 PULL COMMECTOR 79  **4-77-59-7-13 PULL COMMECTOR 79  **4	REF.NO. PA	RT NO.	DESCRIPTIO	N -			R	REMARK	REF.NO	. PART NO.	DESCRIPTIO	N -		REMARI
# 1-633-409-11 HI BOART										*A-1651-015-A				
1.651   1-246-413-11   CABON   470   51   1/40   C213   1-126-233-11   CABON   470   51   1/40   C213   1-106-363-00   WILAR   0.0068WF   10%   400   C213   1-106-363-10   WILAR   0.022WF   10%   250   C219   1-106-363-10   WILAR   0.022WF   10%   250   C219   1-106-363-10   WILAR   0.0038WF   10%   400   C213   1-106-363-10   WILAR   0.0038WF   10%   400   C213   1-106-363-10   WILAR   0.0038WF   10%   100   C213   1-106-363-10   WILAR   0.056WF   10%   100   C213   1-106-363-10   WILAR   0.016WF   10%   400   C213   C213   C16-363-10   WILAR   0.016WF   10%   400   C213   C16-363-10   WILAR   0.016WF   10%   400   C213   C16-363-10   WILAR   0.016WF   10%   400   C213   C16-363-10   WILAR   0.016WF   10%   500   WILAR   0.016WF   10%			HI BOARD	*******	*****	******	***	*****		*1-564-524-11 *1-564-527-11	PLUG, CONNE PLUG, CONNE	CTOR 12P	18P	
1.651   1-246-413-11   CABON   470   51   1/40   C213   1-126-233-11   CABON   470   51   1/40   C213   1-106-363-00   WILAR   0.0068WF   10%   400   C213   1-106-363-10   WILAR   0.022WF   10%   250   C219   1-106-363-10   WILAR   0.022WF   10%   250   C219   1-106-363-10   WILAR   0.0038WF   10%   400   C213   1-106-363-10   WILAR   0.0038WF   10%   400   C213   1-106-363-10   WILAR   0.0038WF   10%   100   C213   1-106-363-10   WILAR   0.056WF   10%   100   C213   1-106-363-10   WILAR   0.016WF   10%   400   C213   C213   C16-363-10   WILAR   0.016WF   10%   400   C213   C16-363-10   WILAR   0.016WF   10%   400   C213   C16-363-10   WILAR   0.016WF   10%   400   C213   C16-363-10   WILAR   0.016WF   10%   500   WILAR   0.016WF   10%	*1- *1-	564-512-11 568-879-51	PLUG, CONNE PIN. CONNEC	CTOR 9P TOR 4P								TINGS (THO)	101	
1.651   1-246-413-11   CABON   470   51   1/40   C213   1-126-233-11   CABON   470   51   1/40   C213   1-106-363-00   WILAR   0.0068WF   10%   400   C213   1-106-363-10   WILAR   0.022WF   10%   250   C219   1-106-363-10   WILAR   0.022WF   10%   250   C219   1-106-363-10   WILAR   0.0038WF   10%   400   C213   1-106-363-10   WILAR   0.0038WF   10%   400   C213   1-106-363-10   WILAR   0.0038WF   10%   100   C213   1-106-363-10   WILAR   0.056WF   10%   100   C213   1-106-363-10   WILAR   0.016WF   10%   400   C213   C213   C16-363-10   WILAR   0.016WF   10%   400   C213   C16-363-10   WILAR   0.016WF   10%   400   C213   C16-363-10   WILAR   0.016WF   10%   400   C213   C16-363-10   WILAR   0.016WF   10%   500   WILAR   0.016WF   10%	1-	569-473-11	JACK BLOCK,	PIN 3P					C203 C205 C206	1-124-927-11	ELECT ELECT	4.7MF 2.2MF	20% 20%	50 V 50 V
C217   1-10-335-00   WILAR   0.002MF   10\frac{1}{2} 250\frac{1}{2} 250\frac{1}{2}   1-57-532-21   WILAR   0.022MF   10\frac{1}{2} 250\frac{1}{2}   1-57-532-21   WILAR   0.022MF   10\frac{1}{2} 250\frac{1}{2}   1-57-532-21   WILAR   0.022MF   10\frac{1}{2} 250\frac{1}{2}   1-57-532-21   WILAR   0.033MF   10\frac{1}{2}   100\frac{1}{2}   100\frac{1}{2}   1-10-345-00   WILAR   0.055MF   10\frac{1}{2}   100\frac{1}{2}   1-10-345-00   WILAR   0.033MF   10\frac{1}{2}   100\frac{1}{2}   1-10-345-10   WILAR   0.015MF   10\frac{1}{2}   100\frac{1}{2}   100\frac{1}{2}   100\frac{1}{2}   1-10-345-10   WILAR   0.015MF   10	R1651 1-			<b>47</b> 0	5%	1/4W			C207	1-124-927-11	ELECT	4.7MF 22MF	20% 20%	
1.5651   1-571-532-21   SUITCH, TACTIL   C220   1-108-620-11   WILAR   0.0033MP   103   1009   100		249-413-11				1/4W			C217 C218	1-106-363-00 1-106-375-12	MYLAR MYLAR	0.0068MF 0.022MF	10% 10%	400V 250V
\$1653 1-571-532-21 SWITCH, TACTIL  C222 1-106-385-00 WYLAR 0.0586H 10X 100V  *1-633-410-11 H2 BOARD  *1-633-410-11 H2 BOARD  *1-633-410-11 H2 BOARD  *1-568-882-51 PIN, CONNECTOR 7P  *1-568-882-51 PIN, CONNECTOR 7P  *4-734-987-01 GUIDE, LIGHT  C228 1-106-375-12 WYLAR 0.022MF 10X 250V  *4-734-987-01 GUIDE, LIGHT  C229 1-106-375-12 WYLAR 0.023MF 10X 250V  *4-734-987-01 GUIDE, LIGHT  C229 1-106-375-12 WYLAR 0.033MF 10X 250V  *4-734-987-01 GUIDE, LIGHT  C229 1-106-375-12 WYLAR 0.015MF 10X 400V  *4-331-686-01 BRACKET (8), LIGHT GUIDE  C230 1-106-371-00 WYLAR 0.015MF 10X 400V  *4-310-60-10 LODEN, LEDI, D105-10 C23 1-106-371-00 WYLAR 0.015MF 10X 400V  C010DE>  C231 1-124-902-00 ELECT 0.47MF 20X 50V  D1651 **-20-1076-01 H0LDER, LEDI, D165-10 C23 1-106-371-10 CERAMIC CHIP 470PF 10X 50V  D1654 **-719-948-31 D10DE LD-201VR  *4-201-076-01 H0LDER, LEDI, D165-10 C23 1-106-005-11 CERAMIC CHIP 470PF 10X 50V  C1C>  C1C>  C1C>  C1C>  C241 1-163-103-10 ELECT 0.47MF 20X 50V  C438 1-163-105-11 CERAMIC CHIP 470PF 10X 50V  C409 1-126-103-11 ELECT 0.47MF 20X 50V  C401 1-163-108-00 CERAMIC CHIP 20PF 5X 50V  C401 1-163-018-00 CERAMIC CHIP 20PF 5X 50V  C401 1-163-018-00 CERAMIC CHIP 20PF 5X 50V  C1C5 1-106-078-01 H0LDER, LEDI, D1654 C23 1-166-03-10 CERAMIC CHIP 0.0056MF 10X 50V  C1C5 1-249-413-11 CARBON 470 5X 1/4W C1401 1-123-875-11 ELECT 10MF 20X 50V  *1-564-519-11 PLUG, CONNECTOR 4P C1401 1-123-875-11 ELECT 10MF 20X 50V  *1-564-519-11 PLUG, CONNECTOR 4P C1401 1-123-875-11 ELECT 10MF 20X 50V  *1-564-519-11 PLUG, CONNECTOR 4P C1401 1-123-875-11 ELECT 10MF 20X 50V  *1-564-519-11 PLUG, CONNECTOR 4P C1401 1-123-875-11 ELECT 10MF 20X 50V  *1-564-519-11 PLUG, CONNECTOR 4P C1401 1-123-875-11 ELECT 10MF 20X 50V  *1-564-519-11 PLUG, CONNECTOR 4P C1401 1-123-875-11 ELECT 10MF 20X 50V  *1-564-519-11 PLUG, CONNECTOR 4P C1401 1-123-875-11 ELECT 10MF 20X 50V  *1-564-519-11 PLUG, CONNECTOR 4P C1401 1-123-875-11 ELECT 10MF 20X 50V  *1-1000-00 CERAMIC 0.022MF 50V C1416 1-123-875-11 ELECT 10MF 20X 50V  *1-564-519-11 PLUG, CONNECTOR 4P C1401 1-123-875-11	S1651 1-	571-532-21	SWITCH, TAC	TIL					C220	1-108-620-11	MYLAR	0.0033MF	10%	100V
*1-633-410-11 H2 BOARD ************************************	S1653 1-	571-532-21	SWITCH, TAC	TIL	*****	:*****	***		C222 C223	1-106-385-00 1-106-385-00 1-106-367-00	MYLAR MYLAR MYLAR	0.056MF 0.056MF	10% 10% 10%	100V 100V
*1-568-882-51 PIN, CONNECTOR 7P	*1-	633-410-11							į					
ORIODE	*1- *4- *4-	568-882-51 374-987-01 381-686-01	PIN, CONNECT	TOR 7P T , LIGHT	GUIDE				C227 C228 C229	1-106-375-12 1-106-379-12 1-106-371-00	MYLAR MYLAR MYLAR	0.022MF 0.033MF 0.015MF	10% 10% 10%	250V 250V 400V
1651 8-719-948-31   DIODE LD-201VR		<n n<="" t="" td=""><td>ne&gt;</td><td></td><td></td><td></td><td></td><td></td><td>C231 C232</td><td></td><td></td><td></td><td>20% 20%</td><td></td></n>	ne>						C231 C232				20% 20%	
DIGS2   8-719-948-31   DIODE LD-201VR	D1651 8-	719-948-31	DIODE LD-20	1 VR					C233 C234	1-163-005-11 1-163-005-11	CERAMIC CHIP	470PF 470PF	10% 10%	50 V 50 V
C240   1-163-018-00   CERAMIC CHIP 0.0056MF   10%   50V	D1652 8-	719-948-31	DIODE LD-201						 					
C241	D1654 8-	719-948-31	DIODE LD-20	VR ; D1654					C238 C239	1-124-902-00 1-163-125-00 1-126-103-11	ELECT CERAMIC CHIP ELECT	0.47MF 220PF 470MF	20% 5% 20%	50V 16V
C243	101654 0 4								C241					50V
R1662 1-249-413-11 CARBON 470 5% 1/4W	161651 8-	741-138-70	IC BX-1387						C243 C244	1-163-033-00 1-163-033-00	CERAMIC CHIP	0.022MF 0.022MF		50V 50V
C1402   1-126-103-11   ELECT   470MF   20%   16V	D1660 1 1			470	F %	1 / / (1							20%	
*1-633-411-11 J2 BOARD  *********  1-537-088-21 TERMINAL BOARD, INPUT/OUTPUT  *1-560-278-21 PLUG, CONNECTOR 4P  *1-564-517-11 PLUG, CONNECTOR 2P  *1-564-519-11 PLUG, CONNECTOR 4P   C1407 1-124-910-11 BLBCT 47MF 20% 50V  *1-564-519-11 PLUG, CONNECTOR 4P  C1408 1-124-122-11 BLBCT 100MF 20% 50V  C1409 1-126-233-11 BLBCT 22MF 20% 50V  C1410 1-123-875-11 BLBCT 10MF 20% 50V  C1411 1-123-875-11 BLBCT 10MF 20% 50V  C1751 1-101-005-00 CERAMIC 0.022MF 50V  C1752 1-101-005-00 CERAMIC 0.022MF 50V  C1755 1-102-114-00 CERAMIC 470PF 10% 50V  C1756 1-102-114-00 CERAMIC 470PF 10% 50V  C1751 1-102-210-01 BLBCT 10MF 20% 50V  C1413 1-123-875-11 BLBCT 10MF 20% 50V  C1414 1-123-875-11 BLBCT 10MF 20% 50V  C1415 1-106-220-00 MYLAR 0.1MF 10% 100V  C1416 1-106-220-00 MYLAR 0.1MF 10% 100V  C1417 1-124-120-11 BLBCT 220MF 20% 16V							***	*****	C1402 C1403	1-126-103-11 1-163-003-11	ELECT CERAMIC CHIP	470MF 330PF	20% 10%	16V 50V
1-537-088-21   TERMINAL BOARD, INPUT/OUTPUT   C1406   1-106-220-00   MYLAR   O.1MF   10%   100V   100V   1-566-278-21   PLUG, CONNECTOR 4P   C1408   1-124-122-11   ELECT   10MF   20%   50V   1-564-517-11   PLUG, CONNECTOR 4P   C1409   1-126-233-11   ELECT   10MF   20%   50V   1-564-519-11   PLUG, CONNECTOR 4P   C1410   1-123-875-11   ELECT   10MF   20%   50V   1-124-910-11   ELECT   10MF   20%   50V   1-124-910-11   ELECT   10MF   20%   50V   1-123-875-11   ELECT   10MF   20%   50V   1-124-910-11   ELECT   1-104-005-00   CERAMIC   0.022MF   50V   C1413   1-124-910-11   ELECT   1-104-105-00   CERAMIC   0.022MF   50V   C1414   1-123-875-11   ELECT   10MF   20%   50V   C1415   1-106-220-00   MYLAR   0.1MF   10%   100V   100V   1-123-875-11   ELECT   10MF   20%   50V   C1415   1-106-220-00   MYLAR   0.1MF   10%   100V   100V   C1417   1-124-120-11   ELECT   220MF   20%   16V   1-124-120-11   ELECT   220MF   20%   20	* 1-	633-411-11									MYLAR CERAMIC CHIP	0.1MF 0.0047MF	10%	
C1411 1-123-875-11 ELECT 10MF 20% 50V C1412 1-124-910-11 ELECT 47MF 20% 50V C1413 1-124-910-11 ELECT 47MF 20% 50V C1413 1-124-910-11 ELECT 47MF 20% 50V C1414 1-123-875-11 ELECT 10MF 20% 50V C1415 1-106-220-00 MYLAR 0.1MF 10% 100V C1755 1-102-114-00 CERAMIC 470PF 10% 50V C1416 1-106-220-00 MYLAR 0.1MF 10% 100V C1417 1-124-120-11 ELECT 220MF 20% 16V	* 1 - 1 * 1 - 1	560-278-21 564-517-11	TERMINAL BOA PLUG, CONNEC PLUG, CONNEC	TOR 4P TOR 2P	ידעס/דע	PUT			C1407 C1408 C1409	1-124-910-11 1-124-122-11 1-126-233-11	ELECT Elect Elect	47MF 100MF 22MF	20% 20% 20%	50V 50V 50V
C1751 1-101-005-00 CERAMIC 0.022MF 50V C1414 1-123-875-11 ELECT 10MF 20% 50V C1752 1-101-005-00 CERAMIC 0.022MF 50V C1755 1-102-114-00 CERAMIC 470PF 10% 50V C1756 1-102-114-00 CERAMIC 470PF 10% 50V C1756 1-102-114-00 CERAMIC 470PF 10% 50V C1416 1-106-220-00 MYLAR 0.1MF 10% 100V C1417 1-124-120-11 ELECT 220MF 20% 16V C1417 1-124-120-11 ELECT 220MF 20% 16V									C1411	1-123-875-11	ELECT			
C1756 1-102-114-00 CERAMIC 470PF 10% 50V C1416 1-106-220-00 MYLAR 0.1MF 10% 100V C1417 1-124-120-11 ELECT 220MF 20% 16V C1417 1-412-240-11 INDUCTOR, WIDE BAND	C1752 1-1	101-005-00 101-005-00	CERAMIC CERAMIC	0.022M	7	1 09/	50 V	'	C1413 C1414	1-124-910-11 1-123-875-11	ELECT Elect	47MF 10MF	20% 20%	50V 50V
L1751 1-412-240-11 INDUCTOR, WIDE BAND														
L1751 1-412-240-11 INDUCTOR, WIDE BAND L1752 1-412-240-11 INDUCTOR, WIDE BAND		<001	L>					· [						
·	L1751 1-4 L1752 1-4	112-240-11 112-240-11	INDUCTOR, WI INDUCTOR, WI	DE BAND DE BAND				. I						

REF.N	O. PART NO.	DESCRIPTION	N -		REMARK	REF. NO	. PART NO.		DES	CRIPTIO	N 			REMARK
C141 C141 C142 C142 C142	8 1-163-003-11 9 1-163-003-11 5 1-124-902-00 6 1-124-902-00 7 1-136-017-00	CERAMIC CHII CERAMIC CHII ELECT ELECT CERAMIC CHII	P 330PF P 330PF 0.47MF 0.47MF P 0.0047MF	10% 10% 20% 20%	50V 50V 50V 50V 50V	D1506	8-719-911 8-719-929 8-719-911 8-719-911	-79 -19	DIODE	E HZS36 E ISS11	NB4 9			
C1428 C1429 C1430 C1431 C1432	9 1-136-017-00 0 1-163-003-11 1 1-126-529-11	CERAMIC CHIR CERAMIC CHIR ELECT ELECT	0.0047MF 330PF 0.47MF 0.47MF		50V 50V 50V 50V 50V	IC1401   IC1402	8-759-013 1 8-752-032 2 8-759-946 3 8-759-040	-27 -32	IC CX	(A1114P (A2014A	<b>C</b> D			
C1433 C1436 C1437 C1438 C1439	7 1-163-009-11 8 1-106-367-00	MYLAR MYLAR MYLAR	0.001MF 0.01MF 0.01MF	10% 10% 10%	50 V 50 V 50 V 400 V 400 V	101501	8-759-942	-16 <tran< td=""><td>IC TE SISTO</td><td>A2031A R&gt;</td><td></td><td>C</td><td></td><td></td></tran<>	IC TE SISTO	A2031A R>		C		
C1440 C1441 C1442 C1443 C1444	1-123-875-11		10MF 10MF 0.1MF 0.1MF 47MF		50 V 50 V 100 V 100 V 50 V	Q202 Q1401 Q1402 Q1403	8-729-271- 8-729-216- 8-729-271- 8-729-271- 8-729-216-	-22 -22 -22 -22	TRANS TRANS TRANS TRANS	ISTOR 2 ISTOR 2 ISTOR 2 ISTOR 2	2SC2712 2SA1162 2SC2712 2SC2712	G G G		
C1446 C1501	1-124-927-11	CERAMIC Elect	470PF 470PF 4.7MF 1MF	5% 5% 20%	50V 50V 50V	<b>Q</b> 1404			TRANS	151UK 2	25A1162	~G		
C1502 C1503	1-124-791-11 1-108-614-11 1-124-910-11		U.UUIMF	10%	50 V 100 V 50 V	R201 R202 R203	1-216-079- 1-216-206- 1-216-075- 1-216-085- 1-216-085-	-00	METAL METAL	GLAZE GLAZE	18K 2.2K	5% 5%	1/10W 1/8W	
C1505 C1507 C1508	1-106-383-00 1-108-620-11 1-124-791-11	MYLAR MYLAR ELECT	47MF 0.047MF 0.0033MF 1MF 1MF	10% 10% 20%	100V 100V 50V	į	1-216-085- 1-216-085-	00	METAL	GLAZE GLAZE GLAZE	33K 33K		1/10W 1/10W 1/10W	
	1-124-791-11 1-124-927-11 1-163-105-00				50 V 50 V 50 V	R208	1-216-061- 1-216-061- 1-216-077- 1-216-081- 1-216-077-	00 I 00 I 00 I	METAL METAL METAL	GLAZE GLAZE GLAZE	3.3K 3.3K 15K 22K 15K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	<con< td=""><td>INECTOR&gt;</td><td></td><td></td><td></td><td></td><td>1-216-097- 1-216-081-</td><td>0<b>0 l</b></td><td>METAL.</td><td>GLAZE</td><td>100K 22K</td><td></td><td>1/10W 1/10W</td><td></td></con<>	INECTOR>					1-216-097- 1-216-081-	0 <b>0 l</b>	METAL.	GLAZE	100K 22K		1/10W 1/10W	
CN140	1 1-565-838-11		CK 2P			R213 R214 R215	1-216-077-1 1-216-033-1 1-216-081-1	00 N 00 N	METAL METAL	GLAZE GLAZE	15K 220 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
D201	<010 8-719-929-16	DIODE HZS9.1M	√B3			R216 R217	1-216-081-0 1-216-077-0	00 1	(ETAL	GLAZE	22K 15K	5% 5%	1/10W 1/10W	
D202 D205 D206 D1401	8-719-929-08	DIODE HZS9.IN DIODE HZS7.5N DIODE HZS7.5N DIODE HZS7.5N	(B3 IB3 IB3 IB3			R218 R219 R220	I-216-033-0 1-216-073-0 1-216-057-0	00 M	(ETAL	GLAZE	220 10K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
D1404 D1405 D1407 D1408 D1409	8-719-929-08 8-719-929-08 8-719-929-20 8-719-929-16 8-719-929-16	DIODE HZS7.5N DIODE HZS7.5N DIODE HZS10NB DIODE HZS9.1N DIODE HZS9.1N	/B3 /B3 /3 /B3		9 1 1 1 1 1	R222 R223 R224	1-216-041-0 1-216-041-0 1-216-049-0 1-216-049-0 1-216-049-0	M 00 M 00 M 00	ETAL ETAL ETAL ETAL ETAL	GLAZE GLAZE GLAZE	470 470 1K 1K 1K	5%% 5%% 5%% 5%%	1/10W 1/10W 1/10W 1/10W 1/10W	
D1410 D1415 D1418 D1419 D1420	8-719-929-16 8-719-929-08 8-719-929-08 8-719-929-08	DIODE HZS9.1N DIODE HZS7.5N DIODE HZS7.5N DIODE HZS7.5N DIODE HZS7.5N	B3 B3 B3 B3		 	R227 R228 R229	1-216-049-0 1-216-033-0 1-216-033-0 1-216-075-0 1-216-079-0	M 00 M 00 M 01	ETAL ( ETAL ( ETAL ( ETAL (	GLAZE GLAZE GLAZE	1 K 220 220 12 K 18 K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
D1421 D1422 D1423 D1424 D1425	8-719-929-08 8-719-929-08 8-719-929-08 8-719-929-08	DIODE HZS7.5N DIODE HZS7.5N DIODE HZS7.5N DIODE HZS7.5N DIODE HZS7.5N	B3 B3 B3			R232 R233 R234	1-216-073-0 1-216-073-0 1-216-057-0 1-216-057-0 1-216-033-0	0 MI 0 MI 0 MI	ETAL ( ETAL ( ETAL ( ETAL (	GLAZE GLAZE GLAZE	10K 10K 2.2K 2.2K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
D1426 D1501 D1502 D1503	8-719-929-08 8-719-300-33 8-719-911-19 8-719-911-19	DIODE HZS7.5N DIODE RU-3AM DIODE ISS119 DIODE ISS119 DIODE ISS119				R242 R243 R244	1-216-091-0 1-216-091-0 1-216-075-0 1-216-067-0 1-216-075-0	O ME O Me O Me	ETAL C ETAL C ETAL G ETAL G	ILAZE ILAZE ILAZE	56K 56K 12K 5.6K 12K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	

# J1 IFG

REF.NO. PART NO	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION		1	REMARK
R248 1-216-0		5.6K 5% 12K 5% 5.6K 5%	1/10W 1/10W		R1474 R1476	1-216-023-00 1-216-113-00 1-216-089-00 1-216-089-00 1-216-113-00	METAL GLAZE METAL GLAZE	82 5% 470K 5% 47K 5% 47K 5% 470K 5% 470K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	] )
R1402 1-216-1 R1403 1-216-08 R1404 1-216-17 R1405 1-249-42		47K 5% 150 5% 10K 5%	1 /100		D1400	1 216 100 00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150 5% 150 5% 10K 5% 10K 5%	1/8W 1/8W 1/8W 1/10W 1/10W	
R1408 1-216-08 R1409 1-216-08 R1410 1-216-08 R1411 1-216-04		470 5% 47% 5% 470 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1486 R1487 R1488 R1489 R1501	1-216-073-00 1-216-065-00 1-216-065-00 1-216-081-00 1-216-083-00 1-216-113-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 4.7K 5% 4.7K 5% 4.7K 5% 22K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1413 1-216-11 R1414 1-216-08 R1415 1-216-08 R1416 1-216-08	3-00 METAL GLAZE	47K 5% 470K 5% 47K 5% 27K 5% 27K 5%	1/10W 1/10W 1/10W 1/10W		R1502 R1503 R1504 R1505 R1506	1-216-083-00 1-216-113-00 1-216-085-00 1-216-081-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	27K 5% 470K 5% 33K 5% 22K 5% 470K 5% 22OK 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
R1418 1-247-73 R1422 1-216-02 R1423 1-216-08 R1424 1-216-08	HETAL GLAZE HETAL GLAZE HETAL GLAZE HETAL GLAZE HETAL GLAZE HETAL GLAZE HETAL GLAZE HETAL GLAZE HETAL GLAZE HETAL GLAZE	82 5% 82 5% 100 5% 47K 5% 47K 5%	1/2W F 1/10W 1/10W 1/10W		R1510 R1511 R1512 R1513 R1514	1-216-085-00 1-216-081-00 1-216-113-00 1-216-105-00 1-216-067-00 1-216-049-00 1-216-073-00 1-216-049-00 1-216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 5% 1K 5% 10K 5% 56K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1426 I-216-02 R1427 I-216-00 R1428 I-216-11 R1429 I-216-11	5-00 METAL GLAZE 1-00 METAL GLAZE 3-00 METAL GLAZE 3-00 METAL GLAZE 0-00 METAL GLAZE	470K 5% 470K 5%	1/10W 1/10W		R1517 R1519 R1520	1-216-033-00 1-216-101-00 1-216-111-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	18K 5% 220 5% 150K 5% 390K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1431 1-216-04 R1432 1-216-04 R1433 1-216-03 R1434 1-249-39	1-00 METAL GLAZE 1-00 METAL GLAZE 3-00 METAL GLAZE 3-11 CARBON	68 5% 470 5% 470 5% 220 5% 10 5%	1/10W 1/10W 1/10W 1/10W 1/4W F		R1550 R1556	1-216-349-00 1-216-067-00	METAL OXIDE METAL GLAZE	1 5% 5.6K 5%		F
R1441 1-216-04 R1442 1-216-08	9-11 CARBON 5-00 METAL GLAZE 5-00 METAL GLAZE 9-00 METAL GLAZE 9-00 METAL GLAZE	10K 5% 680 5% 680 5% 47K 5% 47K 5%	1/4W 1/10W 1/10W 1/10W 1/10W		RV1501 RV1502 RV1503 RV1504		RES, ADJ, CARI RES, ADJ, CARI RES, ADJ, CARI RES, ADJ, CARI RES, ADJ, CARI RES, ADJ, CARI			
R1445 1-216-09	3-00 METAL GLAZE	041 06	1/10W 1/10W 1/10W 1/10W 1/10W		RV1506 RV1507 RV1508	1-238-017-11 1-238-009-11 1-238-016-11	RES, ADJ, CARE RES, ADJ, CARE RES, ADJ, CARE RES, ADJ, CARE RES, ADJ, CARE	30N 22K 30N 220 30N 10K		
R1452 I-216-04 R1453 I-216-04 R1454 I-216-18 R1455 I-216-18 R1457 I-216-02	9-00 METAL GLAZE 0-00 METAL GLAZE 0-00 METAL GLAZE	1K 5% 1K 5% 180 5% 180 5% 100 5%	1/10W 1/10W 1/8W 1/8W 1/10W				IFG BOARD, CON	(PLETE	******	******
R1459 1-216-02 R1460 1-216-06 R1461 1-216-19 R1462 1-216-05 R1463 1-216-05	5-00 METAL GLAZE 0-00 METAL GLAZE 7-00 METAL GLAZE	100 5% 4.7K 5% 470 5% 2.2K 5% 1.8K 5%	1/10W 1/10W 1/8W 1/10W 1/10W	1		<cap <="" td=""><td>CONNECTOR, BOA ACITOR&gt; CERAMIC CHIP O</td><td></td><td>D 12P</td><td>50∀</td></cap>	CONNECTOR, BOA ACITOR> CERAMIC CHIP O		D 12P	50∀
R1464 1-216-05 R1465 1-216-02 R1466 1-216-03 R1467 1-216-02 R1468 1-216-02	3-00 METAL GLAZE 3-00 METAL GLAZE 5-00 METAL GLAZE	2.7K 5% 82 5% 220 5% 100 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C2 C3 C4 C5	1-164-232-11 1-164-232-11 1-164-232-11 1-164-232-11	CERAMIC CHIP O CERAMIC CHIP O CERAMIC CHIP O CERAMIC CHIP O	0.01MF 0.01MF 0.01MF 0.01MF		50V 50V 50V 50V 50V
R1469 1-216-02 R1470 1-216-02 R1471 1-216-02 R1472 1-216-02	5-00 METAL GLAZE	100 5% 100 5% 82 5% 82 5%	1/10W 1/10W 1/10W 1/10W		C7 C8 C9	1-164-232-11 1-124-791-11 1-123-875-11 1-130-471-00 1-163-121-00	ELECT 1	MF OMF .OOIMF	20% 20% 5%	50 V 50 V 50 V 50 V

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-		PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
	C13	1-163-119-00 1-136-298-00 1-124-477-11 1-124-477-11 1-124-477-11	ELECT ELECT	120PF 0.0033MF 47MF 47MF 47MF	5% 2% 20% 20% 20%	50V 100V 16V 16V 16V	R1 R2 R3	1-216-045-00 1-216-043-00 1-216-043-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 560 560 680	5% 5% 5%	1/10W 1/10W 1/10W	
	C16 C17 C18 C19	1-124-477-11 1-123-875-11 1-106-367-00 1-106-367-00 1-126-233-11	ELECT ELECT Mylar Mylar	47MF 10MF 0.01MF 0.01MF 22MF	20% 20% 10% 10% 20%	16V 50V 400V 400V 50V	R6 R7 R9 R10	1-216-043-00 1-216-043-00 1-216-073-00 1-216-077-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 560 10K 15K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W	
	C22 C23 C24	I-126-233-11 1-106-220-00 I-106-228-00 I-124-963-11 I-106-375-12	MYLAR MYLAR ELECT	22MF 0.1MF 0.22MF 33MF 0.022MF	20% 10% 10% 20% 10%	50V 100V 100V 16V 250V	R16 R17 R18	1-216-097-00 1-216-059-00 1-216-097-00 1-216-097-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 2.7K 100K 100K 3.9K	555555 5555555555555555555555555555555	1/10W 1/10W 1/10W 1/10W	
	C27 C28 C29	1-106-383-00 1-124-791-11 1-163-103-00 1-124-791-11 1-124-791-11	ELECT CERAMIC CHIP ELECT	0.047MF 1MF 27PF 1MF 1MF	10% 20% 5% 20% 20%	100V 50V 50V 50V 50V	R22 R24	1-216-097-00 1-216-075-00 1-216-099-00 1-216-089-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 12K 120K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
	C32 C33 C34	1-106-367-00 1-130-479-00 1-163-081-00 1-106-228-00 1-123-875-11	MYLAR CERAMIC CHIP	0.01MF 0.0047MF 0.22MF 0.22MF 10MF	10% 5% 10% 20%	400V 50V 25V 100V 50V		1-238-016-11	IABLE RESISTOR RES, ADJ, CAR RES, ADJ, CAR	BON 10F			
	C37	1-163-119-00 1-124-477-11 1-124-477-11	CERAMIC CHIP BLECT BLECT	120PF 47MF 47MF	5% 20% 20%	50V 16V 16V	******	MIS	**************************************	******	******	******	******
	CDA2 SFT1	1-404-750-11 1-527-840-00	TEB> DISCRIMINATOF DISCRIMINATOF FILTER, CERAN FILTER, CERAN	R, CERAMIC NIC			Δ.1-426-398-11 COIL, DEMAGNETIZATION Δ.1-451-313-21 DEFLECTION YOKE (Y29FXA) 1-452-032-00 MAGNET, DISK; 10MM φ 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM φ Δ.1-452-509-42 NECK ASSY, PICTURE TUBE (NA-308)  SPEAKER						
	D3	<dio 8-719-400-18</dio 	DE> DIODE MA152WM	t.			V901 <b>Δ</b> .	8-733-823-05	CORD, POWER (W	(A68JYK	(60X)	·	*****
	I C2 I C3	8-759-030-48		,		,	 	**************************************	ES AND PACKING ****************  DESCRIPTION MANUAL, INSTRIBAG. PROTECTION	******* JCTION			REMARK
	L2 L3 L4	1-408-410-00 1-410-064-11 1-408-421-00	L> INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	120H 120H 2.7MMH 1000H 1000H			***	4-398-903-01 4-398-904-01 4-398-905-01 REMOT	CUSHION (UPPER CUSHION (LOWER INDIVIDUAL CAR E COMMANDER COMMANDER, REM	R) (ASS R) (ASS RTON	Y) M-689)		
	Q3 {	8-729-901-00 8-729-216-22	NSISTOR> TRANSISTOR DT TRANSISTOR 2S TRANSISTOR DT	A1162-G			•	4-395-610-01	COVER, BATTERY	(FOR	RM-689	)	
		<res1 1-216-296-00 1-216-296-00</res1 		0 5% 0 5%	1/8W 1/8W							I	English

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